

## Rabbit anti-Human RUVBL1 Polyclonal Antibody | anti-RUVBL1 antibody

RUVBL1 Antibody

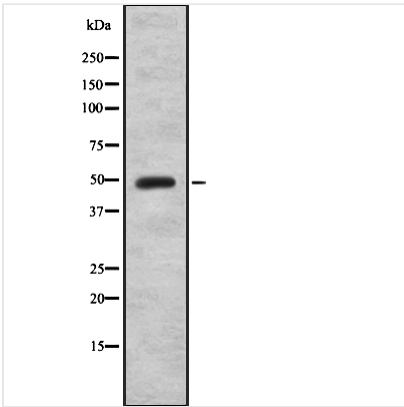
| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                              |
|-----------|--------|------------|-------------------------------------------|
| AAA327368 | Rabbit | Human      | ELISA, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

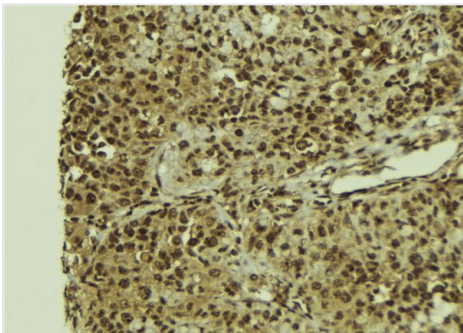
RUVBL1; Polyclonal Antibody; RUVBL1 Antibody; 49 kDa TATA box binding protein interacting protein; 49 kDa TATA box-binding protein-interacting protein; 49 kDa TBP interacting protein; 49 kDa TBP-interacting protein; 54 kDa erythrocyte cytosolic protein; ECP-54; ECP54; ERYTHROCYTE CYTOSOLIC PROTEIN; 54-KD; INO80 complex subunit H; NMP 238; Nuclear matrix protein 238; Pontin 52; PONTIN; RuvB like 1; RuvB-like 1; RUVB1\_HUMAN; RVB1; TAP54 alpha; TAP54-alpha; TIP49; TIP49a; TIP60 associated protein 54 alpha; TIP60-associated protein 54-alpha; anti-RUVBL1 antibody

### PRODUCT SPECIFICATIONS

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Reactivity                                       | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Clonality                                        | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Isotype                                          | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Specificity                                      | RUVBL1 antibody detects endogenous levels of total RUVBL1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Purity/Purification                              | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Form/Format                                      | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Concentration                                    | 1mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Sequence Length                                  | 386                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Applicable Applications for anti-RUVBL1 antibody | ELISA, IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Immunogen                                        | A synthesized peptide derived from human RUVBL1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Subcellular Location                             | Nucleus Matrix. Nucleus > Nucleoplasm. Cytoplasm. Membrane. Cytoplasm > Cytoskeleton > Centrosome. Mainly localized in the nucleus, associated with nuclear matrix or in the nuclear cytosol, although it is also present in the cytoplasm and associated with the cell membranes. In prophase and prometaphase it is located at the centrosome and the branching microtubule spindles. After mitotic nuclear membrane disintegration it accumulates at the centrosome and sites of tubulin polymerization. As cells pass through metaphase and into telophase it is located close to the centrosome at the early phase of tubulin polymerization. In anaphase it accumulates at the zone of tubule interdigitation. In telophase it is found at polar tubule overlap, and it reappears at the site of chromosomal decondensation in the daughter cells. |
| Tissue Specificity                               | Ubiquitously expressed with high expression in heart, skeletal muscle and testis.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Predicted Cross Reactivity                       | <b>Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Xenopus</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Similarity                                       | Pig (100%), Zebrafish (92%), Bovine (92%), Horse (100%), Sheep (92%), Rabbit (100%), Dog (100%), Xenopus (83%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Conjugation                                      | Unconjugated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Preparation and Storage                          | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |



**WB (Western Blot)**  
Western blot analysis of RUVBL1 using HeLa whole lysates.



**IHC (Immunohistochemistry)**  
AAA327368 at 1/100 staining Human breast cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

|                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-RUVBL1 antibody</b> | <p>Function: Possesses single-stranded DNA-stimulated ATPase and ATP-dependent DNA helicase (3' to 5') activity; hexamerization is thought to be critical for ATP hydrolysis and adjacent subunits in the ring-like structure contribute to the ATPase activity.</p> <p>Subunit Structure: Forms homohexameric rings. Can form a dodecamer with RUVBL2 made of two stacked hexameric rings; however, even though RUVBL1 and RUVBL2 are present in equimolar ratio, the oligomeric status of each hexamer is not known. Oligomerization may regulate binding to nucleic acids and conversely, binding to nucleic acids may affect the dodecameric assembly. Interacts with the transcriptional activation domain of MYC. Component of the RNA polymerase II holoenzyme complex. May also act to bridge the LEF1/TCF1-CTNNB1 complex and TBP. Component of the NuA4 histone acetyltransferase complex which contains the catalytic subunit KAT5/TIP60 and the subunits EP400, TRRAP/PAF400, BRD8/SMAP, EPC1, DMAP1/DNMAP1, RUVBL1/TIP49, RUVBL2, ING3, actin, ACTL6A/BAF53A, MORF4L1/MRG15, MORF4L2/MRGX, MRGBP, YEATS4/GAS41, VPS72/YL1 and MEAF6. The NuA4 complex interacts with MYC and the adenovirus E1A protein. RUVBL1 interacts with EP400. Component of a NuA4-related complex which contains EP400, TRRAP/PAF400, SRCAP, BRD8/SMAP, EPC1, DMAP1/DNMAP1, RUVBL1/TIP49, RUVBL2, actin, ACTL6A/BAF53A, VPS72 and YEATS4/GAS41. Component of the BAF53 complex, at least composed of ACTL6A/BAF53A, RUVBL1/TIP49, SMARCA2/BRM, and TRRAP/PAF400. Component of some MLL1/MLL complex, at least composed of the core components KMT2A/MLL1, ASH2L, HCFC1/HCF1, WDR5 and RBBP5, as well as the facultative components BAP18, CHD8, E2F6, HSP70, INO80C, KANSL1, LAS1L, MAX, MCRS1, MGA, MYST1/MOF, PELP1, PHF20, PRP31, RING2, RUVB1/TIP49A, RUVB2/TIP49B, SENP3, TAF1, TAF4, TAF6, TAF7, TAF9 and TEX10. Associates with alpha and gamma tubulins, particularly during metaphase and early anaphase. Interacts with NPAT. Component of the chromatin-remodeling INO80 complex; specifically part of a complex module associated with the helicase ATP-binding and the helicase C-terminal domain of INO80. Interacts with IGHMBP2. Interacts with OFD1. Interacts with HINT1. Component of a complex with USP49 and PSMC5. Component of a SWR1-like complex. Component of the R2TP complex composed at least of PIHD1, RUVBL1, RUVBL2 and RPAP3 (PubMed:20864032). Interacts with PIH1D1 (PubMed:17636026). Interacts with ITFG1 (PubMed:25437307). Interacts with WAC; WAC positively regulates MTOR activity by promoting the assembly of the TTT complex composed of TEO2, TTI1 and TTI2 and the RUVBL complex composed of RUVBL1 and RUVBL2 into the TTT-RUVBL complex which leads to the dimerization of the mTORC1 complex and its subsequent activation (PubMed:26812014).</p> <p>Similarity: Binding to MYC is dependent on a Myc domain essential for oncogenic activity. Belongs to the RuvB family.</p> |
|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                           |                |
|---------------------------|----------------|
| NCBI GI #                 | 977380335      |
| NCBI GeneID               | 8607           |
| NCBI Accession #          | NP_001306013.1 |
| NCBI GenBank Nucleotide # | NM_001319084.1 |

|                                  |                                                                                                                                                                                                       |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UniProt Accession #              | <a href="#">Q9Y265</a> ; <a href="#">P82276</a> ; <a href="#">Q1KMR0</a> ; <a href="#">Q53HK5</a> ; <a href="#">Q53HL7</a> ; <a href="#">Q53Y27</a> ; <a href="#">Q9BSX9</a> ; <a href="#">B2R5S0</a> |
| Molecular Weight                 | Observed: 50 kDa<br>Predicted: 51 kDa                                                                                                                                                                 |
| NCBI Official Full Name          | ruvB-like 1 isoform 2                                                                                                                                                                                 |
| NCBI Official Synonym Full Names | RuvB like AAA ATPase 1                                                                                                                                                                                |
| NCBI Official Symbol             | RUVBL1                                                                                                                                                                                                |
| NCBI Official Synonym Symbols    | RVB1; TIH1; ECP54; TIP49; ECP-54; INO80H; NMP238; PONTIN; TIP49A; NMP 238; Pontin52                                                                                                                   |
| NCBI Protein Information         | ruvB-like 1                                                                                                                                                                                           |
| UniProt Protein Name             | RuvB-like 1                                                                                                                                                                                           |
| UniProt Gene Name                | <b>RUVBL1</b>                                                                                                                                                                                         |
| UniProt Synonym Gene Names       | INO80H; NMP238; TIP49; TIP49A; 49 kDa TBP-interacting protein; ECP-54; NMP 238; TAP54-alpha                                                                                                           |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)

Online datasheet: <https://stage.aaabiotech.com/polyclonal/ruvbl1-antibody-immunohistochemistry-western-blot-elisa/327368>