

## Rabbit RUVBL2 Polyclonal Antibody | anti-RUVBL2 antibody

RUVBL2 Antibody

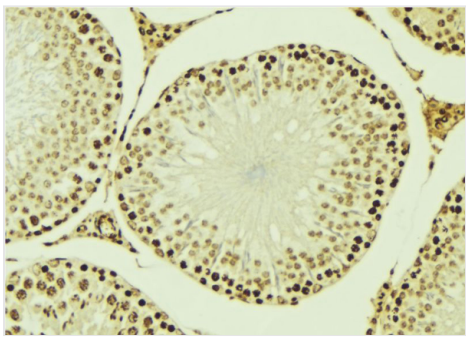
| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                              |
|-----------|--------|-------------------|-------------------------------------------|
| AAA326449 | Rabbit | Human, Mouse, Rat | ELISA, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

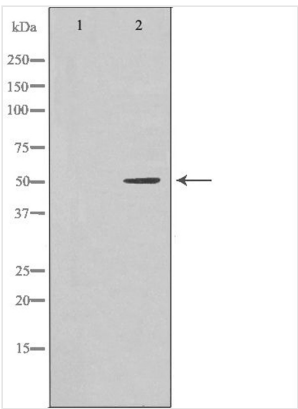
RUVBL2; Polyclonal Antibody; RUVBL2 Antibody; 48 kDa TATA box-binding protein-interacting protein; 48 kDa TBP-interacting protein; 48-kDa TATA box-binding protein-interacting protein; 48-kDa TBP-interacting protein; 51 kDa erythrocyte cytosolic protein; CGI-46; EC=3.6.1.-; ECP-51; ECP51; Erythrocyte cytosolic protein; 51-KD; INO80 complex subunit J; INO80J; MGC144733; MGC144734; MGC52995; mp47; p47; p47 protein; Repressing pontin 52; Reptin 52; REPTIN; RuvB (E coli homolog)-like 2; RUVB; E. coli; homolog-like 2; RuvB-like 2 (E. coli); RuvB-like 2; RuvB-like protein 2; RUVB2; RUVB2\_HUMAN; RVB2; TAP54-beta; TATA box-binding protein-interacting protein; 48-KD; TBP-interacting protein; TIH2; TIP48; TIP49b; TIP60-associated protein 54-beta; wu:fi25f01; zreptin; anti-RUVBL2 antibody

### PRODUCT SPECIFICATIONS

|                                                  |                                                                                                                                                                                                                                             |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                                                                                                                                                                      |
| Reactivity                                       | Human, Mouse, Rat                                                                                                                                                                                                                           |
| Clonality                                        | Polyclonal                                                                                                                                                                                                                                  |
| Isotype                                          | IgG                                                                                                                                                                                                                                         |
| Specificity                                      | RUVBL2 antibody detects endogenous levels of total RUVBL2                                                                                                                                                                                   |
| 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                                  | 418                                                                                                                                                                                                                                         |
| Applicable Applications for anti-RUVBL2 antibody | ELISA, IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                                                        |
| Immunogen                                        | A synthesized peptide derived from human RUVBL2                                                                                                                                                                                             |
| Subcellular Location                             | Nucleus Matrix. Nucleus > Nucleoplasm. Cytoplasm. Membrane. 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. |
| Tissue Specificity                               | Ubiquitously expressed. Highly expressed in testis and thymus.                                                                                                                                                                              |
| Predicted Cross Reactivity                       | <b>Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Xenopus</b>                                                                                                                                                                           |
| Similarity                                       | Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Xenopus (80%)                                                                                                                           |
| Conjugation                                      | Unconjugated                                                                                                                                                                                                                                |
| Preparation and Storage                          | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                                                                                                                           |



**IHC (Immunohistochemistry)**  
AAA326449 at 1/100 staining Mouse testis 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.



**WB (Western Blot)**  
Western blot analysis of Hela whole cell lysates, using RUVBL2 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-RUVBL2 antibody

**Description:** This gene encodes the second human homologue of the bacterial RuvB gene. Bacterial RuvB protein is a DNA helicase essential for homologous recombination and DNA double-strand break repair. Functional analysis showed that this gene product has both ATPase and DNA helicase activities. This gene is physically linked to the CGB/LHB gene cluster on chromosome 19q13.3, and is very close (55 nt) to the LHB gene, in the opposite orientation.

**Function:** Possesses single-stranded DNA-stimulated ATPase and ATP-dependent DNA helicase (5' to 3') activity; hexamerization is thought to be critical for ATP hydrolysis and adjacent subunits in the ring-like structure contribute to the ATPase activity.

**Subunit Structure:** Forms homo-hexameric rings (Probable). Can form a dodecamer with RUVBL1 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. Interacts With ATF2. 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. RUVBL2 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. 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. 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. Interacts with IGHMBP2. Interacts with TELO2. Interacts with HINT1. Component of a SWR1-like complex. Component of the R2TP complex composed at least of PIHD1, RUVBL1, RUVBL2 and RPAP3 (PubMed:20864032). Interacts with ITFG1 (PubMed:25437307). Interacts with WAC; WAC positively regulates MTOR activity by promoting the assembly of the TTT complex composed of TELO2, 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).

**Similarity:** The C-terminal domain is required for association with ATF2. Belongs to the RuvB family.

NCBI AND UNIPROT INFORMATION

|                  |                |
|------------------|----------------|
| NCBI GI #        | 1007385928     |
| NCBI GeneID      | 10856          |
| NCBI Accession # | NP_001308120.1 |

|                                  |                                                                                                                                                     |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GenBank Nucleotide #        | <a href="#">NM_001321191.1</a>                                                                                                                      |
| UniProt Accession #              | <a href="#">Q9Y230</a> ; <a href="#">Q6FIB9</a> ; <a href="#">Q6PK27</a> ; <a href="#">Q9Y361</a> ; <a href="#">B3KQ59</a> ; <a href="#">E7ETE5</a> |
| Molecular Weight                 | Observed: 51 kDa<br>Predicted: 52 kDa                                                                                                               |
| NCBI Official Full Name          | ruvB-like 2 isoform 3                                                                                                                               |
| NCBI Official Synonym Full Names | RuvB like AAA ATPase 2                                                                                                                              |
| NCBI Official Symbol             | RUVBL2                                                                                                                                              |
| NCBI Official Synonym Symbols    | RVB2; TIH2; ECP51; TIP48; CGI-46; ECP-51; INO80J; REPTIN; TIP49B; TAP54-beta                                                                        |
| NCBI Protein Information         | ruvB-like 2                                                                                                                                         |
| UniProt Protein Name             | RuvB-like 2                                                                                                                                         |
| UniProt Gene Name                | <b>RUVBL2</b>                                                                                                                                       |
| UniProt Synonym Gene Names       | INO80J; TIP48; TIP49B; 48 kDa TBP-interacting protein; ECP-51; Reptin 52; TAP54-beta                                                                |

**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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ruvbl2-antibody-immunohistochemistry-western-blot-elisa/326449>