

Rabbit RUVBL1 (TIP49) Polyclonal Antibody | anti-RUVBL1 antibody

RUVBL1 (TIP49) Antibody (Center)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA287661	Rabbit	Human (Predicted Reactivity: Zebrafish, Mouse, Rat)	Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot

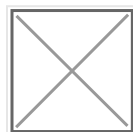
PRODUCT SYNONYMS

RUVBL1 (TIP49); Polyclonal Antibody; RUVBL1 (TIP49) Antibody (Center); RuvB-like 1; 49 kDa TATA box-binding protein-interacting protein; 49 kDa TBP-interacting protein; 54 kDa erythrocyte cytosolic protein; ECP-54; INO80 complex subunit H; Nuclear matrix protein 238; NMP 238; Pontin 52; TIP49a; TIP60-associated protein 54-alpha; TAP54-alpha; RUVBL1; INO80H; NMP238; TIP49; TIP49A; anti-RUVBL1 antibody

PRODUCT SPECIFICATIONS

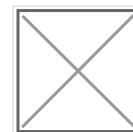
Host	Rabbit
Reactivity	Human (Predicted Reactivity: Zebrafish, Mouse, Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This RUVBL1 (TIP49) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 247-280 amino acids from the Central region of human RUVBL1 (TIP49).
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 0.35 (varies by lot)
Sequence Positions	247-280
Sequence Length	386
Applicable Applications for anti-RUVBL1 antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



FCM/FACS (Flow Cytometry)

RUVBL1 (TIP49) Antibody (Center) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohistochemistry)

RUVBL1 (TIP49) Antibody (Center) immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of RUVBL1 (TIP49) Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)

Western blot analysis of RUVBL1 (arrow) using rabbit polyclonal RUVBL1 Antibody. 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the RUVBL1 gene.

ADDITIONAL INFORMATION

Related Product Information for anti-RUVBL1 antibody	RUVBL1 possesses single-stranded DNA-stimulated ATPase and ATP-dependent DNA helicase (3' to 5') activity. It is a component of the NuA4 histone acetyltransferase complex which is involved in transcriptional activation of select genes principally by acetylation of nucleosomal histone H4 and H2A. This modification may both alter nucleosome - DNA interactions and promote interaction of the modified histones with other proteins which positively regulate transcription. This complex may be required for the activation of transcriptional programs associated with oncogene and proto-oncogene mediated growth induction, tumor suppressor mediated growth arrest and replicative senescence, apoptosis, and DNA repair. The NuA4 complex ATPase and helicase activities seem to be, at least in part, contributed by the association of RUVBL1 and RUVBL2 with EP400. NuA4 may also play a direct role in DNA repair when recruited to sites of DNA damage. RUVBL1 plays an essential role in oncogenic transformation by MYC and also modulates transcriptional activation by the LEF1/TCF1 -CTNNB1 complex. High levels of autoantibodies against RUVBL1 are detected in sera of patients with autoimmune diseases such as polymyositis/dermatomyositis and autoimmune hepatitis.
References	Feng, Y., et al., Cancer Res. 63(24):8726-8734 (2003). Hawley, S.B., et al., J. Biol. Chem. 276(1):179-186 (2001). Ikura, T., et al., Cell 102(4):463-473 (2000). Salzer, U., et al., Biochim. Biophys. Acta 1446(3):365-370 (1999). Makino, Y., et al., Biochem. Biophys. Res. Commun. 245(3):819-823 (1998).

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506753
NCBI GeneID	8607
NCBI Accession #	NP_003698.1
NCBI GenBank Nucleotide #	NM_003707.2
UniProt Accession #	Q9Y265; P82276; Q1KMR0; Q53HK5; Q53HL7; Q53Y27; Q9BSX9; B2R5S0
Molecular Weight	50228
NCBI Official Full Name	ruvB-like 1
NCBI Official Synonym Full Names	RuvB-like AAA ATPase 1
NCBI Official Symbol	RUVBL1
NCBI Official Synonym Symbols	RVB1; TIH1; ECP54; TIP49; INO80H; NMP238; PONTIN; TIP49A; Pontin52
NCBI Protein Information	ruvB-like 1
UniProt Protein Name	RuvB-like 1
UniProt Gene Name	RUVBL1
UniProt Synonym Gene Names	INO80H; NMP238; TIP49; TIP49A; 49 kDa TBP-interacting protein; ECP-54; NMP 238; TAP54-alpha
UniProt Entry Name	RUVB1_HUMAN

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.

