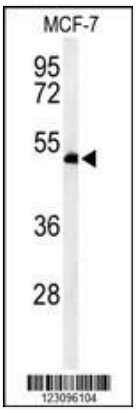
RUVBL1 Antibody – Rabbit Polyclonal

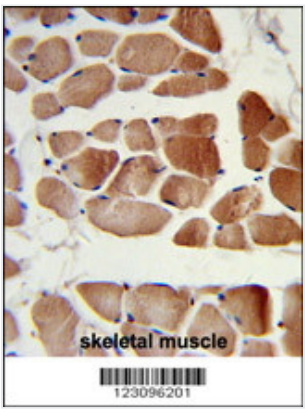
PRODUCT OVERVIEW

Product Name	RUVBL1, Polyclonal Antibody
Full Product Name	RUVBL1 (RuvB-like 1, 49kD TATA Box-binding Protein-interacting Protein, 49kD TBP-interacting Protein, TIP49a, Pontin 52, Nuclear Matrix Protein 238, NMP 238, 54kD Erythrocyte Cytosolic Protein, TIP60-associated Protein 54-alpha, TAP54-alpha, INO80 Complex
Product Gene Name	anti-RUVBL1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein A Affinity Chromatography
Specificity	Recognizes human RUVBL1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	42,127 Da
OMIM	603449
3D Structure	ModBase 3D Structure for Q9Y265
Immunogen	Recombinant protein corresponding to human RUVBL1
Conjugate	APC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-RUVBL1 antibody	Antibodies; Enzymes
Applications Tested/Suitable for anti-RUVBL1 antibody	Flow Cytometry (FC/FACS), FLISA, Western Blot (WB), Immunohistochemistry (IHC) Paraffin
Application Notes for anti-RUVBL1 antibody	FC/FACS: 1:10-1:50 FLISA: 1:1000 WB: 1:100-1:500 IHC-P: 1:50-1:100 Applications are based on unconjugated antibody.
Related Product Information for anti-RUVBL1 antibody	MBS6498337 is an antibody targeting RUVBL1. Also known as RUVBL1 (RuvB-like 1, 49kD TATA Box-binding Protein-interacting Protein, 49kD TBP-interacting Protein, TIP49a, Pontin 52, Nuclear Matrix Protein 238, NMP 238, 54kD Erythrocyte Cytosolic Protein, TIP60-associated Protein 54-alpha, TAP54-alpha, INO80 Complex. Reactive in Human. Host: Rabbit.
Product References and Citations for anti-RUVBL1 antibody	1. Feng, Y., et al., Cancer Res. 63(24):8726-8734 (2003). 2. Hawley, S.B., et al., J. Biol. Chem. 276(1):179-186 (2001). 3. Ikura, T., et al., Cell 102(4):463-473 (2000). 4. Salzer, U., et al., Biochim. Biophys. Acta 1446(3):365-370 (1999). 5. Makino, Y., et al., Biochem. Biophys. Res. Commun. 245(3):819-823 (1998).

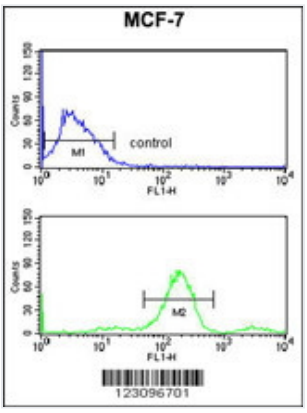
Other Notes	Small volumes of anti-RUVBL1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



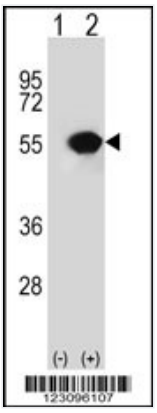
Western Blot (WB) of anti-RUVBL1 antibody
Western blot analysis of RUVBL1 Antibody in MCF-7 cell line lysates (35ug/lane). RUVBL1 (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-RUVBL1 antibody
Formalin-fixed and paraffin-embedded human skeletal muscle reacted with RUVBL1 Antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-RUVBL1 antibody
RUVBL1 Antibody flow cytometry analysis of MCF-7 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Western Blot (WB) of anti-RUVBL1 antibody
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 DETAILS

NCBI/Uniprot data below describe general gene information for RUVBL1. It may not necessarily be applicable to this product.

NCBI GI #	4506753
NCBI GeneID	8607
NCBI Accession #	NP_003698
UniProt Primary Accession #	Q9Y265
UniProt Secondary Accession #	P82276; Q1KMR0; Q53HK5; Q53HL7; Q53Y27; Q9BSX9; B2R5S0
UniProt Related Accession #	Q9Y265
GenBank Nucleotide #	NM_003707.2
NCBI Official Full Name	ruvB-like 1 isoform 1
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
UniProt Protein Name	RuvB-like 1
UniProt Synonym Protein Names	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
Protein Family	RuvB
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
NCBI Protein Information	ruvB-like 1
NCBI Summary for RUVBL1	This gene encodes a protein that has both DNA-dependent ATPase and DNA helicase activities and belongs to the ATPases associated with diverse cellular activities (AAA+) protein family. The encoded protein associates with several multisubunit transcriptional complexes and with protein complexes involved in both ATP-dependent remodeling and histone modification. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jan 2016]
UniProt Comments for RUVBL1	RUVBL1: Possesses single-stranded DNA-stimulated ATPase and ATP- dependent DNA helicase (3' to 5') activity. Component of the NuA4 histone acetyltransferase complex which is involved in transcriptional activation of select genes principally by acetylation of nucleosomal histones 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. Belongs to the ruvB family. Forms homotypic and heterotypic interactions. Forms a multimeric complex with RUVBL2. 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 MLL, ASH2L, HCFC1/HCF1, WDR5 and RBBP5, as well as the facultative components C17orf49, CHD8, E2F6, HSP70, IN80C, KIAA1267, 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, at least composed of ACTL6A, ACTR5, ACTR8, RVBL1, RVBL2, INO80, INO80B, INO80C, INO80D and INO80E. Interacts with IGHMBP2. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 3.6.4.12; Motility/polarity/chemotaxis; Helicase Chromosomal Location of Human Ortholog: 3q21 Cellular Component: nucleoplasm; Golgi apparatus; NuA4 histone acetyltransferase complex; nuclear matrix; intracellular membrane-bound organelle; membrane; cytoplasm; microtubule organizing center; nucleus Molecular Function: protein binding; DNA helicase activity; ATPase activity; ATP binding Biological Process: regulation of transcription from RNA polymerase II promoter; nucleosome assembly; mitosis; establishment and/or maintenance of chromatin architecture; DNA replication-independent nucleosome assembly at centromere; transcription, DNA-dependent; cell division; regulation of growth; spermatogenesis; DNA repair; DNA duplex unwinding; DNA recombination

Research Articles on RUVBL1	**1.** The interaction between RUVBL1 and ITFG1 is required for breast cancer cell collective invasion and progression.
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