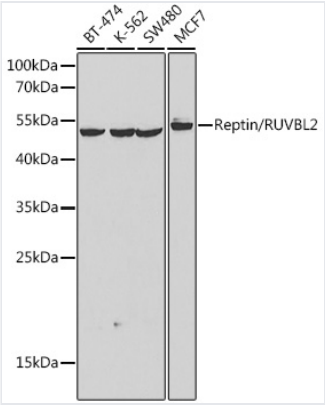
RUVBL2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RUVBL2, Polyclonal Antibody
Full Product Name	RUVBL2 Rabbit Polyclonal Antibody
Product Gene Name	anti-RUVBL2 antibody
Product Synonym Names	RUVBL2; CGI-46; ECP-51; ECP51; INO80J; REPTIN; RVB2; TAP54-beta; TIH2; TIP48; TIP49B
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Purity/Purification	Affinity purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	46,306 Da
OMIM	604788
3D Structure	ModBase 3D Structure for Q9Y230
Immunogen	Recombinant fusion protein of human Reptin/Reptin/RUVBL2 (NP_006657.1).
Product Categories/Family for anti-RUVBL2 antibody	Primary Antibody
Applications Tested/Suitable for anti-RUVBL2 antibody	Western Blot (WB)
Application Notes for anti-RUVBL2 antibody	WB: 1:500-1:2000
Related Product Information for anti-RUVBL2 antibody	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.
Other Notes	Small volumes of anti-RUVBL2 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.
Searchable Terms for RUVBL2 purchase	MBS9464646 is an antibody targeting RUVBL2. Also known as RUVBL2 Rabbit Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-RUVBL2 antibody
Western blot analysis of extracts of various cell lines, using Reptin/Reptin/RUVBL2 antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RUVBL2. It may not necessarily be applicable to this product.

NCBI GI #	5730023
NCBI GeneID	10856
NCBI Accession #	NP_006657.1
UniProt Primary Accession #	Q9Y230
UniProt Secondary Accession #	Q6FIB9; Q6PK27; Q9Y361; B3KQ59; E7ETE5
UniProt Related Accession #	Q9Y230
GenBank Nucleotide #	NM_006666.1
NCBI Official Full Name	ruvB-like 2
NCBI Official Synonym Full Names	RuvB-like AAA ATPase 2
NCBI Official Symbol	RUVBL2
NCBI Official Synonym Symbols	RVB2; TIH2; ECP51; TIP48; CGI-46; INO80J; REPTIN; TIP49B
UniProt Protein Name	RuvB-like 2
UniProt Synonym Protein Names	48 kDa TATA box-binding protein-interacting protein; 48 kDa TBP-interacting protein; 51 kDa erythrocyte cytosolic protein; ECP-51; INO80 complex subunit J; Repressing pontin 52; Reptin 52; TIP49b; TIP60-associated protein 54-beta; TAP54-beta
Protein Family	RuvB
UniProt Gene Name	RUVBL2
UniProt Synonym Gene Names	INO80J; TIP48; TIP49B; 48 kDa TBP-interacting protein; ECP-51; Reptin 52; TAP54-beta
UniProt Entry Name	RUVB2_HUMAN
NCBI Protein Information	ruvB-like 2; ECP-51; TAP54-beta; reptin52 protein; repressing pontin 52; INO80 complex subunit J; RuvB (E coli homolog)-like 2; 48 kDa TBP-interacting protein; TIP60-associated protein 54-beta; 51 kDa erythrocyte cytosolic protein; erythrocyte cytosolic p

UniProt Comments for RUVBL2	RUVBL2: 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. Forms homohexameric 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 MLL, ASH2L, HCFC1/HCF1, WDR5 and RBBP5, as well as the facultative components C17orf49, 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. Ubiquitously expressed. Highly expressed in testis and thymus. Belongs to the RuvB family. Protein type: EC 3.6.4.12; Helicase Chromosomal Location of Human Ortholog: 19q13.3 Cellular Component: nucleoplasm; NuA4 histone acetyltransferase complex; nuclear matrix; membrane; cytoplasm; intracellular; nucleus; ribonucleoprotein complex Molecular Function: ATP-dependent DNA helicase activity; identical protein binding; DNA helicase activity; protein binding; chromatin DNA binding; ATP-dependent 5'-3' DNA helicase activity; unfolded protein binding; ATPase activity; damaged DNA binding; ATP binding Biological Process: chromatin remodeling; establishment and/or maintenance of chromatin architecture; transcription, DNA-dependent; protein folding; regulation of growth; positive regulation of histone acetylation; positive regulation of transcription from RNA polymerase II promoter; DNA repair; DNA duplex unwinding; DNA recombination
Research Articles on RUVBL2	**1.** these findings suggest that YY1-RuvBL1-RuvBL2 complexes could contribute to functions beyond transcription, and we show that YY1 and the ATPase activity of RuvBL2 are required for RAD51 foci formation during homologous recombination.
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