



Anti-RUVBL2 (aa 300-400) polyclonal antibody (DPABH-15699)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	Possesses single-stranded DNA-stimulated ATPase and ATP-dependent DNA helicase (5 to 3) 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. RUVBL2 plays an essential role in oncogenic transformation by MYC and also modulates transcriptional activation by the LEF1/TCF1-CTNNB1 complex. May also inhibit the transcriptional activity of ATF2.
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Immunogen	Synthetic peptide conjugated to KLH derived from within residues 300 - 400 of Human Reptin/TIP49B/RUVB2.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Mouse, Rat, Human, Zebrafish
Purification	Immunogen affinity purified
Conjugate	Unconjugated
Applications	IHC-P, WB, ICC/IF, IP
Format	Liquid

Size	100 µg
Buffer	Constituents: 1% BSA, PBS, pH 7.4
Preservative	0.02% Sodium Azide
Storage	Store at 4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

GENE INFORMATION

Gene Name	RUVBL2 RuvB-like AAA ATPase 3 [Homo sapiens]
Official Symbol	RUVBL2
Synonyms	RUVBL2; RuvB-like AAA ATPase 2; RVB2; TIH2; ECP51; TIP48; CGI-46; INO80J; REPTIN; TIP49B; 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 protein, 51-KD; 48 kDa TATA box-binding protein-interacting protein;
Entrez Gene ID	10856
Protein Refseq	NP_006657.1
UniProt ID	Q9Y230
Pathway	ATF-2 transcription factor network; Cell Cycle; Chromatin organization; Extension of Telomeres
Function	ATP binding; ATP-dependent 5-3 DNA helicase activity; ATP-dependent DNA helicase activity; contributes_to ATPase activity