



Anti-RUVBL1 (aa 200-300) polyclonal antibody (DPABH-25706)

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 (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. May be able to bind plasminogen at cell surface and enhance plasminogen activation. Essential for cell proliferation.
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Immunogen	Synthetic peptide conjugated to KLH derived from within residues 200 - 300 of Human TIP49A.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Immunogen affinity purified
Conjugate	Unconjugated
Applications	ICC/IF, IHC-P, WB
Format	Liquid

Size	100 µg
Buffer	pH: 7.40; Constituent: PBS
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	RUVBL1 RuvB-like AAA ATPase 2 [Homo sapiens]
Official Symbol	RUVBL1
Synonyms	RUVBL1; RuvB-like AAA ATPase 1; RVB1; TIH1; ECP54; TIP49; INO80H; NMP238; PONTIN; TIP49A; Pontin52; ruvB-like 1; ECP-54; NMP 238; pontin 52; TAP54-alpha; INO80 complex subunit H; nuclear matrix protein 238; RuvB (E coli homolog)-like 1; 49 kDa TBP-interacting protein; TIP60-associated protein 54-alpha; 54 kDa erythrocyte cytosolic protein; TATA binding protein interacting protein 49 kDa; 49 kDa TATA box-binding protein-interacting protein;
Entrez Gene ID	8607
Protein Refseq	NP_003698.1
UniProt ID	Q9Y265
Pathway	C-MYC pathway; Chromatin modifying enzymes; Chromosome Maintenance; Extension of Telomeres
Function	ATP binding; NOT ATPase activity; DNA helicase activity; protein binding