

**Anti-TIP49 / RUVBL1 Antibody (aa1-268)**  
**Rabbit Anti Human Polyclonal Antibody**  
**Catalog # ALS17399****Specification****Anti-TIP49 / RUVBL1 Antibody (aa1-268) - Product Information**

Application	WB, IHC-P
Primary Accession	<a href="#">O9Y265</a>
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	50228
Dilution	WB~~1:1000 IHC-P~~N/A

**Anti-TIP49 / RUVBL1 Antibody (aa1-268) - Additional Information****Gene ID** 8607**Alias Symbol** **RUVBL1****Other Names**

RUVBL1, 49 kDa TBP-interacting protein, ECP54, INO80 complex subunit H, INO80H, Nuclear matrix protein 238, Pontin52, RuvB-like 1, TIH1, TAP54-alpha, TIP49, NMP 238, PONTIN, RuvB (E coli homolog)-like 1, RuvB-like 1 (E. coli), ECP-54, NMP238, Pontin ...

**Target/Specificity**

Human TIP49 / RUVBL1

**Reconstitution & Storage**

PBS, 0.05% sodium azide. Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.

**Precautions**

Anti-TIP49 / RUVBL1 Antibody (aa1-268) is for research use only and not for use in diagnostic or therapeutic procedures.

**Anti-TIP49 / RUVBL1 Antibody (aa1-268) - Protein Information****Name** RUVBL1 ([HGNC:10474](#))**Function**

Possesses single-stranded DNA-stimulated ATPase and ATP- dependent DNA helicase (3' to 5') activity; hexamerization is thought to be critical for ATP hydrolysis and adjacent subunits in the ring- like structure contribute to the ATPase activity (PubMed:<a href="http://www.uniprot.org/citations/17157868" target="\_blank">17157868</a>, PubMed:<a href="http://www.uniprot.org/citations/33205750" target="\_blank">33205750</a>). 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 (PubMed:<a

[14966270](http://www.uniprot.org/citations/14966270)). This modification may both alter nucleosome-DNA interactions and promote interaction of the modified histones with other proteins which positively regulate transcription (PubMed: [14966270](http://www.uniprot.org/citations/14966270)). 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 (PubMed: [14966270](http://www.uniprot.org/citations/14966270)). 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 (PubMed: [14966270](http://www.uniprot.org/citations/14966270)). Component of a SWR1-like complex that specifically mediates the removal of histone H2A.Z/H2AZ1 from the nucleosome (PubMed: [24463511](http://www.uniprot.org/citations/24463511)). Proposed core component of the chromatin remodeling INO80 complex which exhibits DNA- and nucleosome-activated ATPase activity and catalyzes ATP-dependent nucleosome sliding (PubMed: [16230350](http://www.uniprot.org/citations/16230350), PubMed: [21303910](http://www.uniprot.org/citations/21303910)). Plays an essential role in oncogenic transformation by MYC and also modulates transcriptional activation by the LEF1/TCF1-CTNNB1 complex (PubMed: [10882073](http://www.uniprot.org/citations/10882073), PubMed: [16014379](http://www.uniprot.org/citations/16014379)). Essential for cell proliferation (PubMed: [14506706](http://www.uniprot.org/citations/14506706)). May be able to bind plasminogen at cell surface and enhance plasminogen activation (PubMed: [11027681](http://www.uniprot.org/citations/11027681)).

#### **Cellular Location**

Nucleus matrix. Nucleus, nucleoplasm. Cytoplasm. Membrane Cytoplasm, cytoskeleton, microtubule organizing center, centrosome Dynein axonemal particle {ECO:0000250|UniProtKB:Q9DE26}. Note=Mainly localized in the nucleus, associated with nuclear matrix or in the nuclear cytosol, although it is also present in the cytoplasm and associated with the cell membranes. In prophase and prometaphase it is located at the centrosome and the branching microtubule spindles. After mitotic nuclear membrane disintegration it accumulates at the centrosome and sites of tubulin polymerization. As cells pass through metaphase and into telophase it is located close to the centrosome at the early phase of tubulin polymerization. In anaphase it accumulates at the zone of tubule interdigitation. In telophase it is found at polar tubule overlap, and it reappears at the site of chromosomal decondensation in the daughter cells

#### **Tissue Location**

Ubiquitously expressed with high expression in heart, skeletal muscle and testis

#### **Anti-TIP49 / RUVBL1 Antibody (aa1-268) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **Anti-TIP49 / RUVBL1 Antibody (aa1-268) - Images**