

**Reptin / RUVBL2 Antibody**  
Rabbit mAb  
Catalog # AP91377

## Specification

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### Reptin / RUVBL2 Antibody - Product Information

Application	WB
Primary Accession	<a href="#">O9Y230</a>
Clonality	Monoclonal
<b>Other Names</b>	
ECP51; Reptin 52; REPTIN; RUVB2; RUVBL2; RVB2; TAP54-beta; TIH2; TIP48; TIP49b; zreptin;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	51157 Da

### Reptin / RUVBL2 Antibody - Additional Information

Purification	<b>Affinity-chromatography</b>
Immunogen	<b>A synthesized peptide derived from human Reptin / RUVBL2</b>
Description	<b>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.</b>
Storage Condition and Buffer	<b>Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.</b>

### Reptin / RUVBL2 Antibody - Protein Information

**Name** RUVBL2

**Synonyms** INO80J, TIP48, TIP49B

#### Function

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 (PubMed:<a href="http://www.uniprot.org/citations/10428817" target="\_blank">10428817</a>, 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

<http://www.uniprot.org/citations/14966270> target="\_blank">14966270</a>). This modification may both alter nucleosome -DNA interactions and promote interaction of the modified histones with other proteins which positively regulate transcription (PubMed:<a href="http://www.uniprot.org/citations/14966270">http://www.uniprot.org/citations/14966270 target="\_blank">14966270</a>). 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:<a href="http://www.uniprot.org/citations/14966270">http://www.uniprot.org/citations/14966270 target="\_blank">14966270</a>). The NuA4 complex ATPase and helicase activities seem to be, at least in part, contributed by the association of RUVBL1 and RUVBL2 with EP400 (PubMed:<a href="http://www.uniprot.org/citations/14966270">http://www.uniprot.org/citations/14966270 target="\_blank">14966270</a>). NuA4 may also play a direct role in DNA repair when recruited to sites of DNA damage (PubMed:<a href="http://www.uniprot.org/citations/14966270">http://www.uniprot.org/citations/14966270 target="\_blank">14966270</a>). Component of a SWR1-like complex that specifically mediates the removal of histone H2A.Z/H2AZ1 from the nucleosome (PubMed:<a href="http://www.uniprot.org/citations/24463511">http://www.uniprot.org/citations/24463511 target="\_blank">24463511</a>). Proposed core component of the chromatin remodeling INO80 complex which exhibits DNA- and nucleosome-activated ATPase activity and catalyzes ATP- dependent nucleosome sliding (PubMed:<a href="http://www.uniprot.org/citations/16230350">http://www.uniprot.org/citations/16230350 target="\_blank">16230350</a>, PubMed:<a href="http://www.uniprot.org/citations/21303910">http://www.uniprot.org/citations/21303910 target="\_blank">21303910</a>). Plays an essential role in oncogenic transformation by MYC and also modulates transcriptional activation by the LEF1/TCF1-CTNNB1 complex (PubMed:<a href="http://www.uniprot.org/citations/10882073">http://www.uniprot.org/citations/10882073 target="\_blank">10882073</a>, PubMed:<a href="http://www.uniprot.org/citations/16014379">http://www.uniprot.org/citations/16014379 target="\_blank">16014379</a>). May also inhibit the transcriptional activity of ATF2 (PubMed:<a href="http://www.uniprot.org/citations/11713276">http://www.uniprot.org/citations/11713276 target="\_blank">11713276</a>). Involved in the endoplasmic reticulum (ER)-associated degradation (ERAD) pathway where it negatively regulates expression of ER stress response genes (PubMed:<a href="http://www.uniprot.org/citations/25652260">http://www.uniprot.org/citations/25652260 target="\_blank">25652260</a>). May play a role in regulating the composition of the U5 snRNP complex (PubMed:<a href="http://www.uniprot.org/citations/28561026">http://www.uniprot.org/citations/28561026 target="\_blank">28561026</a>).

#### Cellular Location

Nucleus matrix. Nucleus, nucleoplasm. Cytoplasm. Membrane. Dynein axonemal particle {ECO:0000250|UniProtKB:Q9DE27} 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

#### Tissue Location

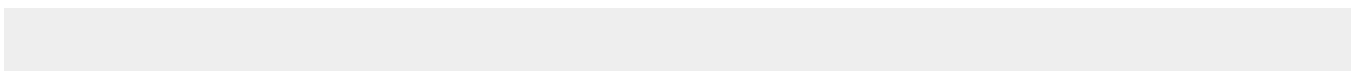
Ubiquitously expressed. Highly expressed in testis and thymus.

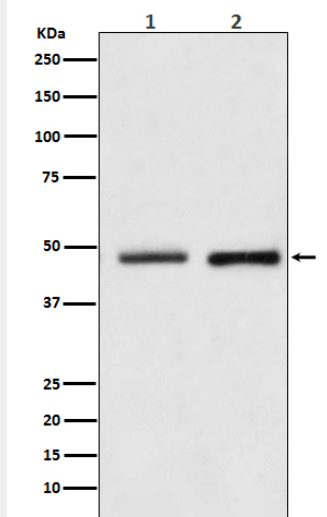
### Reptin / RUVBL2 Antibody - Protocols

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](#)

### Reptin / RUVBL2 Antibody - Images





Western blot analysis of Reptin / RUVBL2 expression in (1) HeLa cell lysate; (2) NIH/3T3 cell lysate.