

# Reptin Rabbit mAb

Catalog # AP77720

## Product Information

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<b>Application</b>	WB
<b>Primary Accession</b>	<a href="#">Q9Y230</a>
<b>Reactivity</b>	Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal Antibody
<b>Isotype</b>	IgG
<b>Conjugate</b>	Unconjugated
<b>Immunogen</b>	A synthesized peptide derived from human Reptin / RUVBL2
<b>Purification</b>	Affinity Chromatography
<b>Calculated MW</b>	51157

## Additional Information

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<b>Gene ID</b>	10856
<b>Other Names</b>	RUVBL2
<b>Dilution</b>	WB~~1/500-1/1000
<b>Format</b>	Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

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<b>Name</b>	RUVBL2 ( <a href="#">HGNC:10475</a> )
<b>Synonyms</b>	INO80J, TIP48, TIP49B
<b>Function</b>	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="#">10428817</a> , PubMed: <a href="#">17157868</a> , PubMed: <a href="#">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 href="#">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="#">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:[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 (PubMed:[14966270](#)). NuA4 may also play a direct role in DNA repair when recruited to sites of DNA damage (PubMed:[14966270](#)). Component of a SWR1-like complex that specifically mediates the removal of histone H2A.Z/H2AZ1 from the nucleosome (PubMed:[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](#), PubMed:[21303910](#)). Plays an essential role in oncogenic transformation by MYC and also modulates transcriptional activation by the LEF1/TCF1-CTNNB1 complex (PubMed:[10882073](#), PubMed:[16014379](#)). May also inhibit the transcriptional activity of ATF2 (PubMed:[11713276](#)). Involved in the endoplasmic reticulum (ER)-associated degradation (ERAD) pathway where it negatively regulates expression of ER stress response genes (PubMed:[25652260](#)). May play a role in regulating the composition of the U5 snRNP complex (PubMed:[28561026](#)).

### Cellular Location

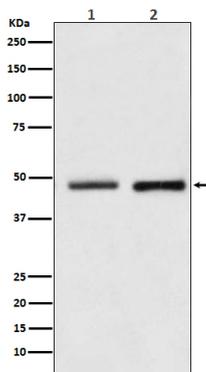
Nucleus matrix. Nucleus, nucleoplasm. Cytoplasm. Membrane. Dynein axonemal particle {ECO:0000250|UniProtKB:Q9DE27} Note=Mainly localized in the nucleus, associated with nuclear matrix or in the nuclear cytosol. Although it is also present in the cytoplasm and associated with the cell membranes

### Tissue Location

Ubiquitously expressed. Highly expressed in testis and thymus.

## Images

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