



Rabbit Anti-Reptin/TIP49B/RUVB2 antibody

SL19836R

Product Name:	Reptin/TIP49B/RUVB2
Chinese Name:	红细胞胞浆蛋白Reptin抗体
Alias:	RVB2; TIH2; ECP51; TIP48; CGI-46; INO80J; REPTIN; TIP49B; 48 kDa TATA box-binding protein-interacting protein; 48 kDa TBP-interacting protein; 48-kDa TATA box-binding protein-interacting protein; 48-kDa TBP-interacting protein; 51 kDa erythrocyte cytosolic protein; CGI-46; EC=3.6.1.-; ECP-51; ECP51; Erythrocyte cytosolic protein, 51-KD; INO80 complex subunit J; INO80J; MGC144733; MGC144734; MGC52995; mp47; p47; p47 protein; Repressing pontin 52; Reptin 52; REPTIN; RuvB (E coli homolog)-like 2; RUVB, E. coli, homolog-like 2; RuvB-like 2 (E. coli); RuvB-like 2; RuvB-like protein 2; RUVB2_HUMAN; RUVBL2; RVB2; TAP54-beta; TATA box-binding protein-interacting protein, 48-KD; TBP-interacting protein, 48-KD; TIH2; TIP49b; TIP60-associated protein 54-beta; wu:fi25f01; zreptin.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	51kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Reptin/TIP49B/RUVB2:301-400/463
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year

	when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	<p>This gene encodes the second human homologue of the bacterial RuvB gene. Bacterial RuvB protein is a DNA helicase essential for homologous recombination and DNA double-strand break repair. Functional analysis showed that this gene product has both ATPase and DNA helicase activities. This gene is physically linked to the CGB/LHB gene cluster on chromosome 19q13.3, and is very close (55 nt) to the LHB gene, in the opposite orientation. [provided by RefSeq, Jul 2008]</p> <p>Function: 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.</p> <p>Subunit: Forms homohexameric rings (Probable). Can form a dodecamer with RUVBL1 made of two stacked hexameric rings; however, though RUVBL1 and RUVBL2 are present in equimolar ratio, the oligomeric status of each hexamer is not known. the transcriptional activation domain of MYC</p> <p>Subcellular Location: Nucleus matrix. Nucleus > nucleoplasm. Cytoplasm. Membrane. 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.</p> <p>Tissue Specificity: Ubiquitously expressed. Highly expressed in testis and thymus.</p> <p>Post-translational modifications: Phosphorylated upon DNA damage, probably by ATM or ATR.</p> <p>Similarity: Belongs to the ruvB family.</p>

SWISS:
Q9Y230

Gene ID:
10856

Database links:

[Entrez Gene: 511048](#) Cow

[Entrez Gene: 10856](#) Human

[Entrez Gene: 20174](#) Mouse

[Entrez Gene: 292907](#) Rat

[Entrez Gene: 317678](#) Zebrafish

[Omim: 604788](#) Human

[SwissProt: Q2TBU9](#) Cow

[SwissProt: Q9Y230](#) Human

[SwissProt: Q9WTM5](#) Mouse

[SwissProt: P83571](#) Zebrafish

[Unigene: 515846](#) Human

[Unigene: 34410](#) Mouse

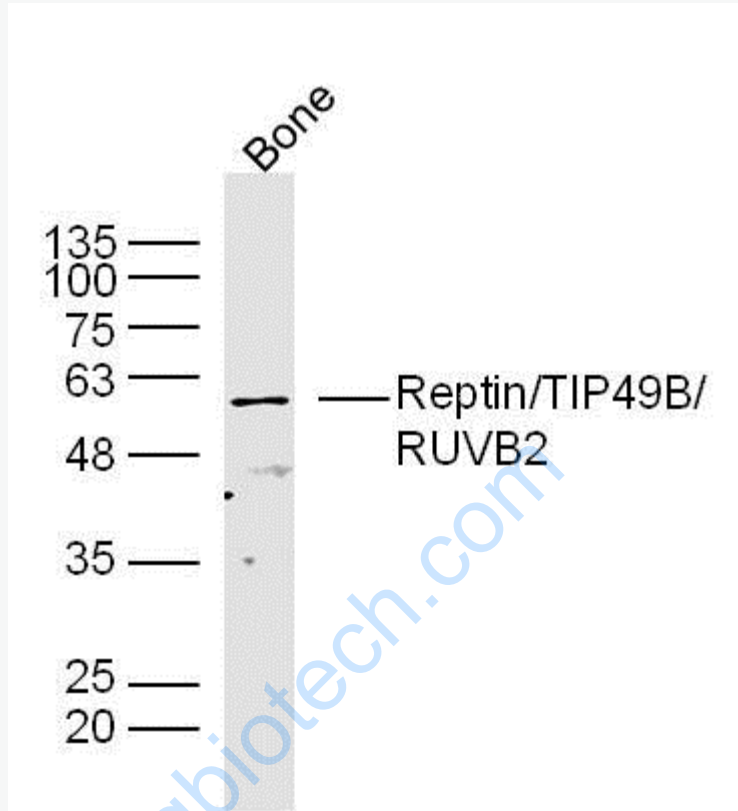
[Unigene: 136577](#) Rat

[Unigene: 35479](#) Zebrafish

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



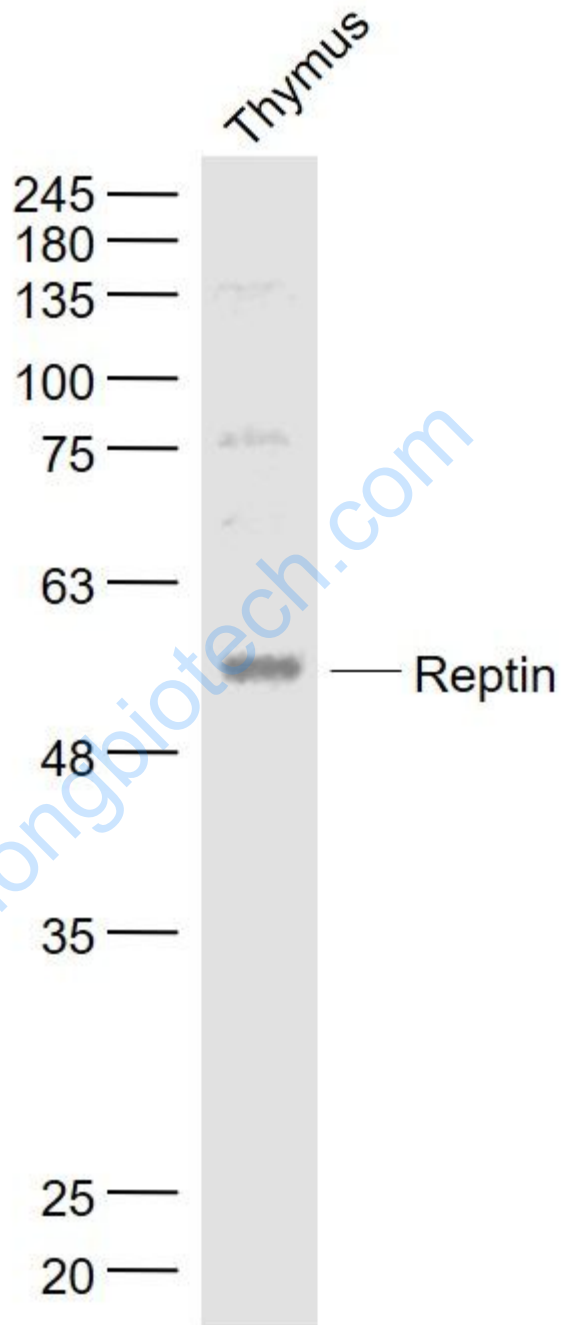
Sample: bone (mouse) Lysate at 40 ug

Primary: Anti-Reptin/TIP49B/RUVB2(SL19836R)at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size:51kD

Observed band size: 51 kD



Sample:

Thymus (Mouse) Lysate at 40 ug

Primary: Anti- Reptin (SL19836R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

	<p>Predicted band size: 51 kD</p>
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	<p>Observed band size: 54 kD</p>
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