

Anti-Reptin/TIP49B/RUVB2 antibody ab89942

★ ★ ★ ★ ★ [1 Abreviews](#) [2 References](#) [4 Images](#)

Overview

Product name	Anti-Reptin/TIP49B/RUVB2 antibody
Description	Mouse polyclonal to Reptin/TIP49B/RUVB2
Host species	Mouse
Tested applications	Suitable for: WB, ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Recombinant full length protein within Human Reptin/TIP49B/RUVB2. The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please contact our Scientific Support team to discuss your requirements.
Positive control	Human pancreas tissue lysate, HeLa whole cell lysate (ab150035), Reptin/TIP49B/RUVB2 transfected 293T cell lysate, HeLa cells.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.40 Constituent: 100% PBS
Purity	Protein A purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab89942 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★☆☆☆☆ (1)	Use a concentration of 1 µg/ml. Predicted molecular weight: 51 kDa.
ICC/IF		Use a concentration of 10 µg/ml.

Target

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.

Tissue specificity

Ubiquitously expressed. Highly expressed in testis and thymus.

Sequence similarities

Belongs to the ruvB family.

Domain

The C-terminal domain is required for association with ATF2.

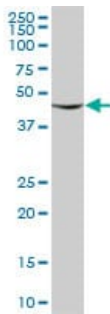
Post-translational modifications

Phosphorylated upon DNA damage, probably by ATM or ATR.

Cellular localization

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.

Images

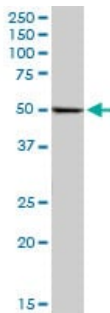


Western blot - Anti-Reptin/TIP49B/RUVB2 antibody (ab89942)

Anti-Reptin/TIP49B/RUVB2 antibody (ab89942) at 1 $\mu\text{g/ml}$ + Human pancreas tissue lysate at 50 μg

Predicted band size: 51 kDa

Observed band size: 46 kDa

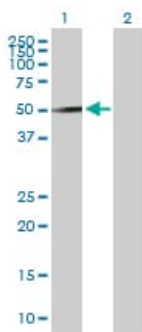


Western blot - Anti-Reptin/TIP49B/RUVB2 antibody (ab89942)

Anti-Reptin/TIP49B/RUVB2 antibody (ab89942) at 1 $\mu\text{g/ml}$ + HeLa cell lysate at 50 μg

Predicted band size: 51 kDa

Observed band size: 51 kDa



Western blot - Anti-Reptin/TIP49B/RUVB2 antibody (ab89942)

All lanes : Anti-Reptin/TIP49B/RUVB2 antibody (ab89942) at 1 $\mu\text{g/ml}$

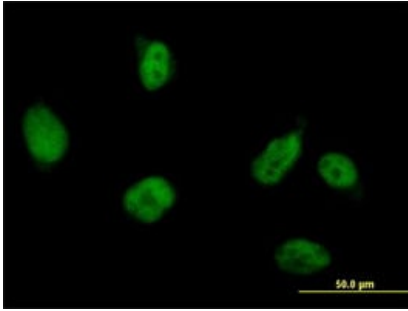
Lane 1 : Reptin/TIP49B/RUVB2 transfected 293T cell lysate

Lane 2 : Non-transfected 293T cell lysate

Lysates/proteins at 25 μg per lane.

Predicted band size: 51 kDa

Observed band size: 51 kDa



ab89942 at 10 $\mu\text{g/ml}$ staining Reptin/TIP49B/RUVB2 in HeLa cells by Immunofluorescence.

Immunocytochemistry/ Immunofluorescence - Anti-Reptin/TIP49B/RUVB2 antibody (ab89942)

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