


Product datasheet

Anti-Reptin/TIP49B/RUVB2 antibody ab137834

[1 References](#) [2 Images](#)

Overview

Product name	Anti-Reptin/TIP49B/RUVB2 antibody
Description	Rabbit polyclonal to Reptin/TIP49B/RUVB2
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Cow, Xenopus laevis, Zebrafish 
Immunogen	Recombinant fragment, corresponding to a region within amino acids 1-303 of Human Reptin/TIP49B/RUVB2 (UniProt ID: Q9Y230).
Positive control	293T, A431, H1299, HeLa, HepG2, Molt4 and Raji whole cell lysates; A549 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: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 1.21% Tris, 0.75% Glycine, 10% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab137834 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		1/500 - 1/3000. Predicted molecular weight: 51 kDa.
ICC/IF		1/100 - 1/1000.

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.

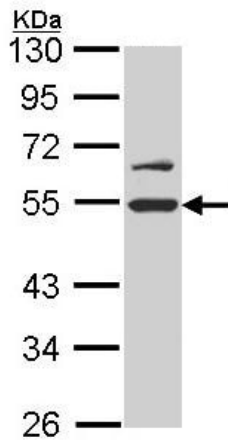
Post-translational modifications

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

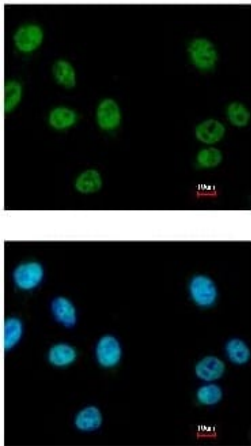


Western blot - Anti-Reptin/TIP49B/RUVB2 antibody (ab137834)

Anti-Reptin/TIP49B/RUVB2 antibody (ab137834) at 1/1000 dilution
+ H2199 whole cell lysate at 30 μ g

Predicted band size: 51 kDa

10% SDS PAGE



Immunocytochemistry/ Immunofluorescence - Anti-Reptin/TIP49B/RUVB2 antibody (ab137834)

Immunofluorescence analysis of paraformaldehyde fixed A549 cells, labeling RUVBL2 using ab137834 at a 1/200 dilution. The lower image is merged with a DNA probe.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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