

Product datasheet

Anti-Reptin/TIP49B/RUVB2 antibody [EPR4146]
ab108962

Recombinant RabMAb

1 References 1 Image

Overview

Product name	Anti-Reptin/TIP49B/RUVB2 antibody [EPR4146]
Description	Rabbit monoclonal [EPR4146] to Reptin/TIP49B/RUVB2
Host species	Rabbit
Tested applications	Suitable for: WB Unsuitable for: Flow Cyt, ICC, IHC-P or IP
Species reactivity	Reacts with: Mouse, Human
Immunogen	Synthetic peptide within Human Reptin/TIP49B/RUVB2 aa 400-500. The exact sequence is proprietary.
Positive control	HepG2, Daudi, HeLa, and SKBR-3 cell lysates
General notes	Rat: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMab[®] patents](#)

This product is a recombinant rabbit monoclonal antibody.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol, 9.85% Tris glycine, 50% Tissue culture supernatant
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR4146
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab108962** 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		1/1000 - 1/10000. Detects a band of approximately 48 kDa (predicted molecular weight: 51 kDa).

Application notes Is unsuitable for Flow Cyt, ICC, IHC-P or IP.

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.

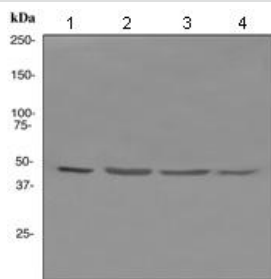
Sequence similarities Belongs to the ruvB family.

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 [EPR4146] (ab108962)

All lanes : Anti-Reptin/TIP49B/RUVB2 antibody [EPR4146] (ab108962) at 1/1000 dilution

Lane 1 : HepG2 cell lysate

Lane 2 : Daudi cell lysate

Lane 3 : HeLa cell lysate

Lane 4 : SKBR-3 cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 51 kDa

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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