abcam

Product datasheet

# Anti-Reptin/TIP49B/RUVB2 antibody [EP4145(2)] ab196027

RabMAb

1 Abreviews 2 Images

## Overview

| | |
|---|---|
| **Product name** | Anti-Reptin/TIP49B/RUVB2 antibody [EP4145(2)] |
| **Description** | Rabbit monoclonal [EP4145(2)] to Reptin/TIP49B/RUVB2 |
| **Host species** | Rabbit |
| **Tested applications** | **Suitable for:** WB |
| **Species reactivity** | **Reacts with:** Mouse, Rat, Human |
| **Immunogen** | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. |
| **Positive control** | HepG2, Daudi, HeLa, SK-BR-3, C6, RAW 264.7, PC12 and NIH 3T3 cell lysates. |
| **General notes** | Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.<br><br>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.<br><br>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 |

## Properties

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|---|---|
| **Form** | Liquid |
| **Storage instructions** | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. |
| **Storage buffer** | pH: 7.2<br>Preservative: 0.01% Sodium azide<br>Constituents: 40% Glycerol (glycerin, glycerine), 59% PBS, 0.05% BSA |
| **Purity** | Protein A purified |
| **Clonality** | Monoclonal |

| | |
|---|---|
| **Clone number** | EP4145(2) |
| **Isotype** | IgG |

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab196027 in the following tested applications.

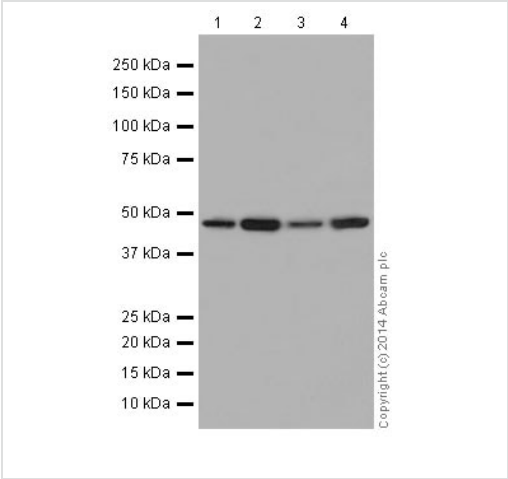
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|---|---|---|
| **WB** | ★★★★☆ **(1)** | 1/1000 - 1/10000. Detects a band of approximately 48 kDa (predicted molecular weight: 51 kDa). |

## 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 [EP4145(2)] (ab196027)

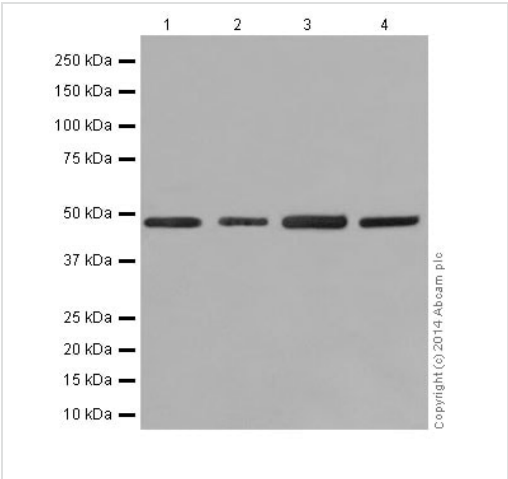
**All lanes :** Anti-Reptin/TIP49B/RUVB2 antibody [EP4145(2)] (ab196027) at 1/1000 dilution

**Lane 1 :** C6 cell lysate
**Lane 2 :** RAW 264.7 cell lysate
**Lane 3 :** PC12 cell lysate
**Lane 4 :** NIH 3T3 cell lysate

Lysates/proteins at 10 µg per lane.

**Secondary**
**All lanes :** Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

**Predicted band size:** 51 kDa




Western blot - Anti-Reptin/TIP49B/RUVB2 antibody [EP4145(2)] (ab196027)

**All lanes :** Anti-Reptin/TIP49B/RUVB2 antibody [EP4145(2)] (ab196027) at 1/10000 dilution

**Lane 1 :** HepG2 cell lysate
**Lane 2 :** Daudi cell lysate
**Lane 3 :** HeLa cell lysate
**Lane 4 :** SK-BR-3 cell lysate

Lysates/proteins at 20 µg per lane.

**Secondary**
**All lanes :** Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

**Predicted band size:** 51 kDa



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