abcam

Product datasheet

# Anti-VPS4B/MIG1 antibody ab86303

1 References 2 Images

## Overview

| | |
|---|---|
| **Product name** | Anti-VPS4B/MIG1 antibody |
| **Description** | Rabbit polyclonal to VPS4B/MIG1 |
| **Host species** | Rabbit |
| **Tested applications** | **Suitable for:** WB, IP |
| **Species reactivity** | **Reacts with:** Human<br>**Predicted to work with:** Chimpanzee, Rhesus monkey, Gorilla, Orangutan |
| **Immunogen** | Synthetic peptide corresponding to Human VPS4B/MIG1 aa 35-400.<br>Database link: **NP_004860.2** |
| **Positive control** | HeLa and 293T whole cell lysates. |
| **General notes** | 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>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

| | |
|---|---|
| **Form** | Liquid |
| **Storage instructions** | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. |
| **Storage buffer** | pH: 6.8<br>Preservative: 0.09% Sodium azide<br>Constituents: 0.1% BSA, Tris buffered saline |
| **Purity** | Immunogen affinity purified |
| **Purification notes** | ab86303 was affinity purified using an epitope specific to VPS4B/MIG1 immobilized on solid support. |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab86303 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** | | 1/2000 - 1/10000. Predicted molecular weight: 49 kDa. |
| **IP** | | Use at 2-5 µg/mg of lysate. |

## Target

**Function** Involved in late steps of the endosomal multivesicular bodies (MVB) pathway. Recognizes membrane-associated ESCRT-III assemblies and catalyzes their disassembly, possibly in combination with membrane fission. Redistributes the ESCRT-III components to the cytoplasm for further rounds of MVB sorting. MVBs contain intraluminal vesicles (ILVs) that are generated by invagination and scission from the limiting membrane of the endosome and mostly are delivered to lysosomes enabling degradation of membrane proteins, such as stimulated growth factor receptors, lysosomal enzymes and lipids. In conjunction with the ESCRT machinery also appears to function in topologically equivalent membrane fission events, such as the terminal stages of cytokinesis and enveloped virus budding (HIV-1 and other lentiviruses).

**Tissue specificity** Ubiquitously expressed.

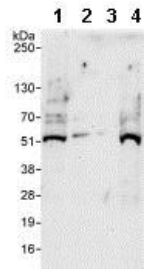
**Sequence similarities** Belongs to the AAA ATPase family.
Contains 1 MIT domain.

**Domain** The MIT domain serves as an adapter for ESCRT-III proteins. It forms an asymmetric three-helix bundle that binds amphipathic MIM (MIT interacting motif) helices along the groove between MIT helices 2 and 3 present in a subset of ESCRT-III proteins thus establishing the canonical MIM-MIT interaction. In an extended conformation along the groove between helices 1 and 3, also binds to a type-2 MIT interacting motif (MIM2).

**Post-translational modifications** Phosphorylated upon DNA damage, probably by ATM or ATR.

**Cellular localization** Prevacuolar compartment membrane. Late endosome membrane. Membrane-associated in the prevacuolar endosomal compartment. Localized in HIV-1 particles purified from acutely infected cells.

## Images




Western blot - Anti-VPS4B/MIG1 antibody (ab86303)

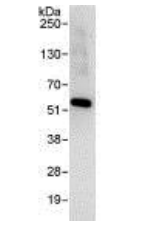
**All lanes :** Anti-VPS4B/MIG1 antibody (ab86303) at 0.04 µg/ml

**Lane 1 :** HeLa whole cell lysate at 50 µg
**Lane 2 :** HeLa whole cell lysate at 15 µg
**Lane 3 :** HeLa whole cell lysate at 5 µg
**Lane 4 :** 293T whole cell lysate at 50 µg

Developed using the ECL technique.

**Predicted band size:** 49 kDa
**Observed band size:** 49 kDa

**Exposure time:** 1 minute




Immunoprecipitation - Anti-VPS4B/MIG1 antibody (ab86303)

Detection of VPS4B/MIG1 by Western Blot of Immunprecipitate. ab86303, at 1 µg/ml, staining VPS4B/MIG1 in HeLa whole cell lysate immunoprecipitated using ab86303 at 3 µg/mg lysate (1 mg/IP; 20% of IP loaded/lane).
Detection: Chemiluminescence with an exposure time of 10 seconds.

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

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