

Product datasheet

Anti-VPS35 antibody [EPR11501(B)] ab157220

KO VALIDATED Recombinant RabMAb

[17 References](#) [7 Images](#)

Overview

Product name	Anti-VPS35 antibody [EPR11501(B)]
Description	Rabbit monoclonal [EPR11501(B)] to VPS35
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB, IHC-P, ICC/IF Unsuitable for: IP
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat
Immunogen	Synthetic peptide within Human VPS35. The exact sequence is proprietary.
Positive control	WB: HeLa, HepG2, Raji and MOLT4 cell lysates. IHC-P: Human kidney and human ovarian carcinoma tissue. ICC/IF: MOLT4 and wild-type HAP1 cells.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	Monoclonal

Clone number EPR11501(B)

Isotype IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab157220 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
Flow Cyt (Intra)		1/10 - 1/100. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/10000 - 1/50000. Predicted molecular weight: 92 kDa.
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
ICC/IF		1/250.

Application notes Is unsuitable for IP.

Target

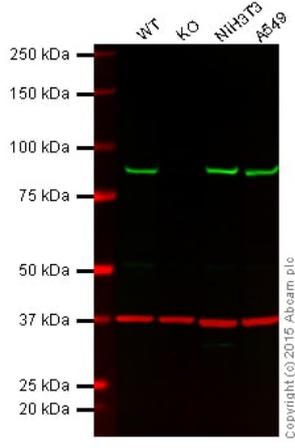
Function Essential component of the retromer complex, a complex required to retrieve lysosomal enzyme receptors (IGF2R and M6PR) from endosomes to the trans-Golgi network. Also required to regulate transcytosis of the polymeric immunoglobulin receptor (pIgR-pIgA).

Tissue specificity Ubiquitous. Highly expressed in heart, brain, placenta, skeletal muscle, spleen, thymus, testis, ovary, small intestine, kidney and colon.

Sequence similarities Belongs to the VPS35 family.

Cellular localization Cytoplasm. Membrane.

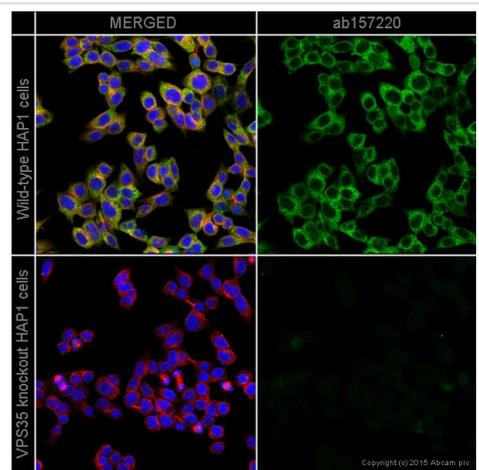
Images



Western blot - Anti-VPS35 antibody [EPR11501(B)] (ab157220)

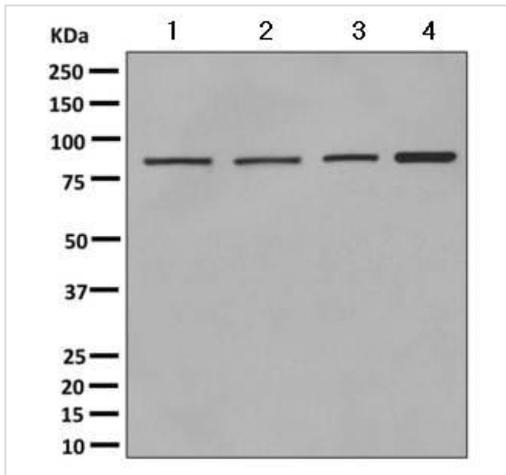
Lane 1: Wild-type HAP1 cell lysate (20 µg)
Lane 2: VPS35 knockout HAP1 cell lysate (20 µg)
Lane 3: NIH/3T3 cell lysate (20 µg)
Lane 4: A549 cell lysate (20 µg)
Lanes 1 - 4: Merged signal (red and green). Green - ab157220 observed at 91 kDa. Red - loading control, ab8245, observed at 37 kDa.

ab157220 was shown to specifically react with VPS35 in wild-type HAP1 cells. No band was observed when VPS35 knockout samples were examined. Wild-type and VPS35 knockout samples were subjected to SDS-PAGE. ab157220 and ab8245 (loading control to GAPDH) were diluted 1/1000 and 1/2000 respectively and incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (ab216773) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (ab216776) secondary antibodies at 1/10,000 dilution for 1 hour at room temperature before imaging.



Immunocytochemistry/ Immunofluorescence - Anti-VPS35 antibody [EPR11501(B)] (ab157220)

ab157220 staining VPS35 in wild-type HAP1 cells (top panel) and VPS35 knockout HAP1 cells (bottom panel). The cells were fixed with 4% formaldehyde (10min), permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated with ab157220 at 1/250 dilution and ab195889 at 1/250 dilution (shown in pseudo colour red) overnight at +4°C, followed by a further incubation at room temperature for 1h with a goat secondary antibody to Rabbit IgG (Alexa Fluor® 488) (ab150081) at 2 µg/ml (shown in green). Nuclear DNA was labelled in blue with DAPI.



Western blot - Anti-VPS35 antibody [EPR11501(B)] (ab157220)

All lanes : Anti-VPS35 antibody [EPR11501(B)] (ab157220) at 1/10000 dilution

Lane 1 : HeLa cell lysate

Lane 2 : HepG2 cell lysate

Lane 3 : Raji cell lysate

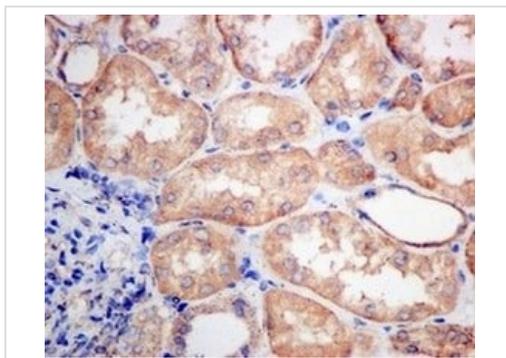
Lane 4 : MOLT4 cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat anti-rabbit HRP at 1/2000 dilution

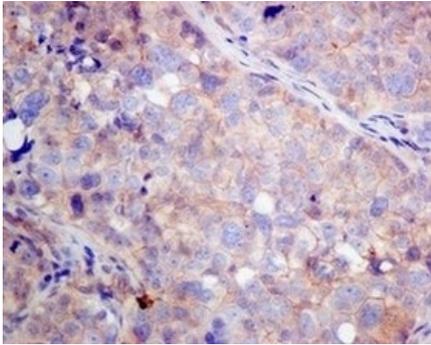
Predicted band size: 92 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-VPS35 antibody [EPR11501(B)] (ab157220)

Immunohistochemical analysis of paraffin-embedded Human kidney tissue labeling VPS35 with ab157220 at 1/50 dilution.

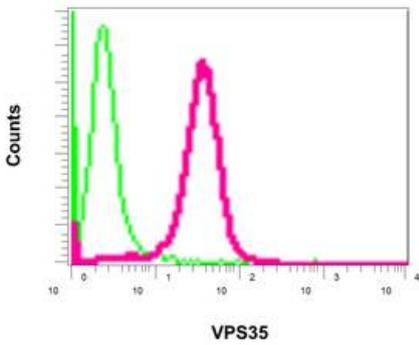
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-VPS35 antibody [EPR11501(B)] (ab157220)

Immunohistochemical analysis of paraffin-embedded Human ovarian carcinoma tissue labeling VPS35 with ab157220 at 1/50 dilution.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-VPS35 antibody [EPR11501(B)] (ab157220)

Intracellular flow cytometric analysis of permeabilized MOLT4 cells labeling VPS35 with ab157220 at 1/10 dilution (red) or a rabbit IgG (negative) (green).

Why choose a recombinant antibody?

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Research with confidence
Consistent and reproducible results | 
Long-term and scalable supply
Recombinant technology |
| 
Success from the first experiment
Confirmed specificity | 
Ethical standards compliant
Animal-free production |

Anti-VPS35 antibody [EPR11501(B)] (ab157220)

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