abcam

ab184170

Anti-VTI1B antibody [EPR15506(B)]

Recombinant | RabMAb | KO Validated

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR15506(B)
Purification technique	Affinity purification Protein A
Concentration	0.889 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Human
Dilution info	1/1000 - 1/10000
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/50
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/170
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

IHC-P

Tested

Species	Human
Dilution info	1/100
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information VTI1B

Function	V-SNARE that mediates vesicle transport pathways through interactions with t-SNAREs on the target membrane. These interactions are proposed to mediate aspects of the specificity of vesicle trafficking and to promote fusion of the lipid bilayers. May be concerned with increased secretion of cytokines associated with cellular senescence.

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For

details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

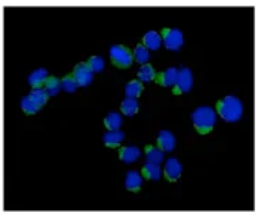
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

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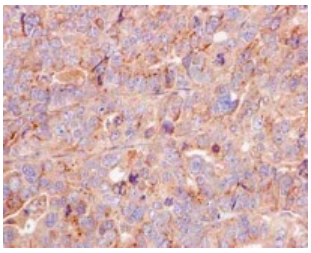
6 product images



Immunocytochemistry/ Immunofluorescence - Anti-VTI1B antibody [EPR15506(B)] (ab184170)

VTI1B Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-VTI1B antibody

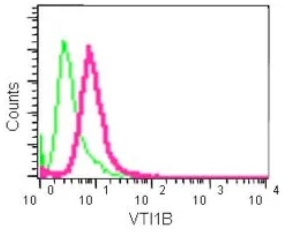
Immunofluorescent analysis of MCF7 cells (paraformaldehyde-fixed, 4%) labeling VTI1B with ab184170 at 1/50 dilution followed by Goat anti rabbit IgG (AlexaFluor® 488) secondary at 1/200 dilution and counter-stained with DAPI (blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-VTI1B antibody [EPR15506(B)] (ab184170)

VTI1B Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-VTI1B antibody

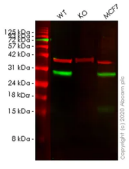
Immunohistochemical analysis of paraffin-embedded human ovarian carcinoma labeling VTI1B with ab184170 at 1:100 diluton and HRP polymer. Counterstained with Hematoxylin.
Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-VTI1B antibody [EPR15506(B)] (ab184170)

VTI1B Flow Cytometry (Intracellular) staining using rabbit Anti-VTI1B antibody

Intracellular flow cytometric analysis of Hela cells (2% paraformaldehyde-fixed) labeling VTI1B with ab184170 at 1/170 dilution (red) or a rabbit IgG (negative) (green), followed by Goat anti rabbit IgG (FITC) secondary at 1/150 dilution.



Western blot - Anti-VTI1B antibody [EPR15506(B)] (ab184170)

VTI1B Western blot staining using rabbit Anti-VTI1B antibody

Lanes 1-3: Merged signal (red and green). Green - ab184170 observed at 28 kDa. Red - loading control ab8245 observed at 36 kDa.
ab184170 Anti-VTI1B antibody [EPR15506(B)] was shown to specifically react with VTI1B in wild-type HeLa cells. Loss of signal was observed when knockout cell line ab265483 (knockout cell lysate ab257797) was used. Wild-type and VTI1B knockout samples were subjected to SDS-PAGE. ab184170 and Anti-GAPDH antibody [6C5] - Loading Control (ab8245) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. 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 in 20000 dilution for 1 hour at room temperature before imaging.

All lanes:
Western blot - Anti-VTI1B antibody [EPR15506(B)] (ab184170) at 1/1000 dilution

Lane 1:
Wild-type HeLa cell lysate at 20 µg

Lane 2:
VTI1B knockout HeLa cell lysate at 20 µg

Lane 2:
Western blot - Human VTI1B knockout HeLa cell line (ab265483)

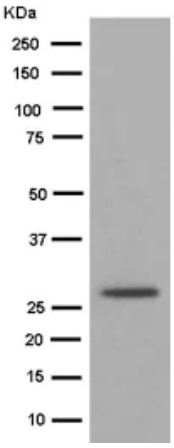
Lane 3:
MCF7 cell lysate at 20 µg

Secondary

All lanes:
Western blot - Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (ab216773) at 1/10000 dilution

Predicted band size: 27 kDa

Observed band size: 28 kDa



Western blot - Anti-VTI1B antibody [EPR15506(B)] (ab184170)

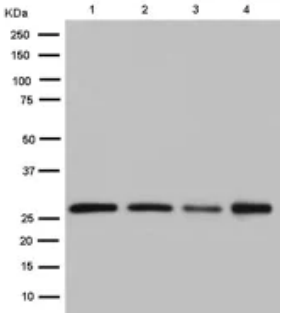
All lanes:
Western blot - Anti-VTI1B antibody [EPR15506(B)] (ab184170) at 1/10000 dilution

All lanes:
MCF7 cell lysate at 10 µg

Secondary

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

Predicted band size: 27 kDa



Western blot - Anti-VTI1B antibody [EPR15506(B)] (ab184170)

All lanes:
Western blot - Anti-VTI1B antibody [EPR15506(B)] (ab184170) at 1/2000 dilution

Lane 1:
MCF7 cell lysate at 20 µg

Lane 2:
HeLa cell lysate at 20 µg

Lane 3:
Human fetal liver lysate at 20 µg

Lane 4:
Human fetal lung lysate at 20 µg

Secondary

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

Predicted band size: 27 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.