Datasheet for ABIN968520

anti-VTI1B antibody (AA 9-121)

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Overview

Quantity:	50 µg
Target:	VTI1B
Binding Specificity:	AA 9-121
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This VTI1B antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Mouse Vti1b aa. 9-121
Clone:	7-Vti1b
Isotype:	IgG1
Cross-Reactivity:	Human, Rat (Rattus)
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. 4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

Product Details

	chromatography.

Target Details

Target:	VTI1B
Alternative Name:	Vti1b (VTI1B Products)
Background:	Eukaryotic protein trafficking involves packaging of target molecules into membranous vesicles that bud from a donor compartment, travel to a specific destination, fuse, and release their contents into an acceptor compartment. Recognition between vesicle and acceptor membrane is mediated by the pairing of the integral membrane SNARE proteins. The stable interaction between vesicle proteins (v-SNAREs, VAMP1, VAMP2) and target proteins (t-SNAREs, syntaxin 1, SNAP-25) juxtaposes the membranes and results in an activated docked state and/or membrane fusion. With the identification of all SNARE family members in yeast, the research focus has turned to mammalian cells. Here, sequence analysis has identified additional SNARE proteins, including VTI1a and VTI1b. In line with their involvement in vesicle transport, these molecules are expressed in a wide range of mammalian tissues. VTI1b is a membrane bound protein whose localization overlaps with the cis/medial Golgi marker mannosidase II and the trans-Golgi marker syntaxin 6. VTI1b interacts with, and disrupts the localization of, syntaxin 5. Thus, VTI1b is thought to function in the regulation of post-Golgi vesicle trafficking.
Molecular Weight:	27 kDa

Application Details

Comment:	Related Products: ABIN968536, ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage:	-20 °C
Storage Comment:	Store undiluted at -20° C.

Publications

Product cited in:

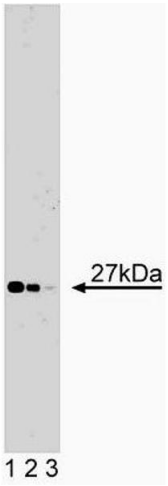
Chen, Manga, Orlow: "Pink-eyed dilution protein controls the processing of tyrosinase." in: **Molecular biology of the cell**, Vol. 13, Issue 6, pp. 1953-64, (2002) (PubMed).

Mallard, Tang, Galli, Tenza, Saint-Pol, Yue, Antony, Hong, Goud, Johannes: "Early/recycling endosomes-to-TGN transport involves two SNARE complexes and a Rab6 isoform." in: **The Journal of cell biology**, Vol. 156, Issue 4, pp. 653-64, (2002) (PubMed).

Shorter, Beard, Seemann, Dirac-Svejstrup, Warren: "Sequential tethering of Golgins and catalysis of SNAREpin assembly by the vesicle-tethering protein p115." in: **The Journal of cell biology**, Vol. 157, Issue 1, pp. 45-62, (2002) (PubMed).

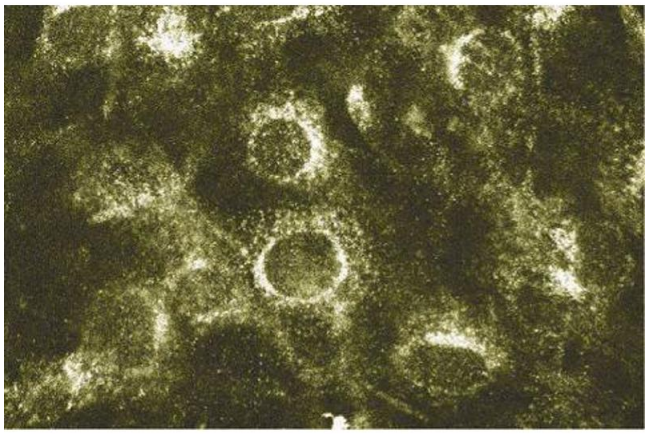
Yang, Gonzalez, Prekeris, Steegmaier, Advani, Scheller: "SNARE interactions are not selective. Implications for membrane fusion specificity." in: **The Journal of biological chemistry**, Vol. 274, Issue 9, pp. 5649-53, (1999) (PubMed).

Advani, Bae, Bock, Chao, Doung, Prekeris, Yoo, Scheller: "Seven novel mammalian SNARE proteins localize to distinct membrane compartments." in: **The Journal of biological chemistry**, Vol. 273, Issue 17, pp. 10317-24, (1998) (PubMed).



Western Blotting

Image 1. Western blot analysis of Vti1b on a human endothelial cell lysate. Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of the mouse anti-Vti1b antibody.



Immunofluorescence

Image 2. Immunofluorescence staining of NIH/3T3 cells (Mouse embryo fibroblast cells, ATCC CRL-1658).

