Technical Data Sheet

Purified Mouse Anti-Vti1a

Product Information

Material Number: 611220 Size: 50 μg 250 μg/ml Concentration: 45/Vti1a Clone:

Mouse Vti1a aa.114-217 Immunogen:

Mouse IgG1 Isotype: Reactivity: QC Testing: Rat

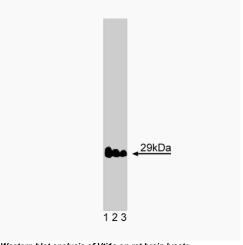
Tested in Development: Human, Dog, Mouse

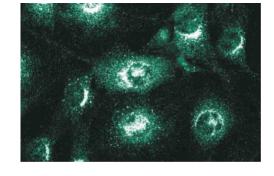
Target MW:

Storage Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium

Description

Eukaryotic protein trafficking involves the packaging of molecules into membranous vesicles that bud from a donor compartment, travel to a specific destination, fuse, and release their components 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) and target proteins (t-SNAREs) juxtaposes the membranes and results in an activated docked state and/or membrane fusion. VTI1a and VTI1b are putative mammalian SNARE proteins identified by sequence comparison with yeast SNAREs. In line with their involvement in vesicle transport, these molecules are expressed in a wide range of mammalian tissues. Vti1a, a possible t-SNARE, contains a C-terminal hydrophobic domain and several regions that may form coiled-coil structures. It exists in distinct syntaxin 5- and syntaxin 6-containing SNARE complexes within the Golgi apparatus. Inhibition of Vti1a blocks transport of G proteins to the cell surface and results in their accumulation within the Golgi. Thus, Vti1a functions in protein transport within the secretory pathway.





Western blot analysis of Vti1a on rat brain lysate. Lane 1: 1:2500, lane 2: 1:5000, lane 3: 1:10000 dilution of

Immunofluorescence staining of NIH-3T3 cells.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at -20°C.

Application Notes

Application

присации		
	Western blot	Routinely Tested
	Immunofluorescence	Tested During Development

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Suggested Companion Products

Catalog Number	Name Name	Size	Clone
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal
611463	Rat Cerebrum Lysate	500 μg	(none)

Product Notices

- 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- 2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
- 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.

References

Advani RJ, Bae HR, Bock JB, et al. Seven novel mammalian SNARE proteins localize to distinct membrane compartments. *J Biol Chem.* 1998; 273(17):10317-10324.(Biology)

Chiu R, Novikov L, Mukherjee S, Shields D. A caspase cleavage fragment of p115 induces fragmentation of the Golgi apparatus and apoptosis. *J Biol Chem.* 2002; 159(4):637-648.(Clone-specific: Western blot)

Mallard F, Tang BL, Galli T. Early/recycling endosomes-to-TGN transport involves two SNARE complexes and a Rab6 isoform. *J Cell Biol.* 2002; 156(4):653-664. (Clone-specific: Western blot)

Shorter J, Beard MB, Seemann J, Dirac-Svejstrup AB, Warren G. Sequential tethering of Golgins and catalysis of SNAREpin assembly by the vesicle-tethering protein p115. *J Cell Biol.* 2002; 157(1):45-62.(Clone-specific: Western blot)

Xu Y, Wong SH, Tang BL, Subramaniam VN, Zhang T, Hong W. A 29-kilodalton Golgi soluble N-ethylmaleimide-sensitive factor attachment protein receptor (Vti1-rp2) implicated in protein trafficking in the secretory pathway. *J Biol Chem.* 1998; 273(34):21783-21789.(Biology)

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