

Technical Data Sheet

Purified Mouse Anti-Mint3

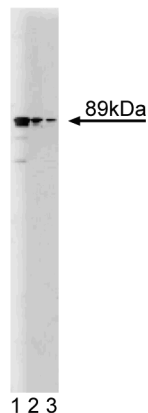
Product Information

Material Number:	611380
Alternate Name:	X11 γ
Size:	50 μ g
Concentration:	250 μ g/ml
Clone:	32/Mint3
Immunogen:	Mouse Mint3 aa. 63-185
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Mouse Tested in Development: Human
Target MW:	86-89 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and \leq 0.09% sodium azide.

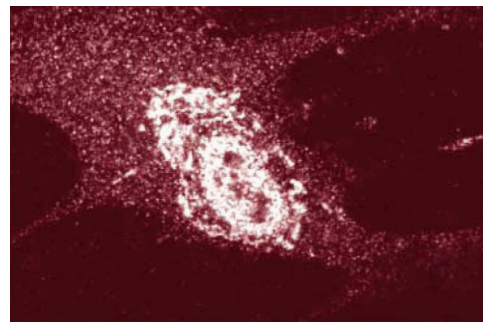
Description

Munc18-1-interacting proteins, Mint1, Mint2, and Mint3, are members of the X11 family of proteins, which contain a phosphotyrosine-binding (PTB) domain and two PSD-95-DLG-ZO-1 (PDZ) domains. The PTB domain binds Asn-Pro-X-pTyr, a β -turn motif found on activated growth factor receptors and other signaling molecules. PDZ domains bind the C-terminus of proteins involved in receptor and channel clustering and protein localization in polarized cells. Both Mint1 and Mint2 are expressed primarily in the nervous system and may interact with Munc18-1 and syntaxin to form a multimeric complex that mediates appropriate docking/fusion of synaptic vesicles. In addition, both Mint1 and Mint2 may be involved in Alzheimer's disease, since Mint2 colocalizes with amyloid precursor protein (APP) and is found in neuritic plaques, while Mint1 can bind APP, and inhibits the processing of APP to the amyloid β peptide. Mint3 can also bind APP, but differs from Mint1 and Mint2 in its N-terminal region. It is also more widely expressed. Thus, Mint3 may function in signaling pathways, vesicle exocytosis, and/or protein targeting in a wide range of tissues. Mint3 has a calculated molecular weight of 61 kD, but reportedly is observed migrating at 86-89 kD.

This antibody is routinely tested by western blot analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



Western blot analysis of Mint3 on a RSV-3T3 cell lysate. Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of the anti-Mint3 antibody.



Immunofluorescence staining of WI-38 cells (human lung fibroblasts; ATCC CCL-75).

Preparation and Storage

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

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Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development

Suggested Companion Products

Catalog Number	Name	Size	Clone
554002	HRP Goat Anti-Mouse Igs	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Igs	0.5 mg	Polyclonal

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. 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.

References

- Borg JP, Straight SW, Kaech SM. Identification of an evolutionarily conserved heterotrimeric protein complex involved in protein targeting. *J Biol Chem.* 1998; 273(48):31633-31636.(Biology)
- Borg JP, Yang Y, De Taddeo-Borg M, Margolis B, Turner RS. The X11alpha protein slows cellular amyloid precursor protein processing and reduces Abeta40 and Abeta42 secretion. *J Biol Chem.* 1998; 273(24):14761-14766.(Biology)
- McLoughlin DM, Irving NG, Brownlees J, Brion JP, Leroy K, Miller CC. Mint2/X11-like colocalizes with the Alzheimer's disease amyloid precursor protein and is associated with neuritic plaques in Alzheimer's disease. *Eur J Neurosci.* 1999; 11(6):1988-1994.(Biology)