

Technical Data Sheet

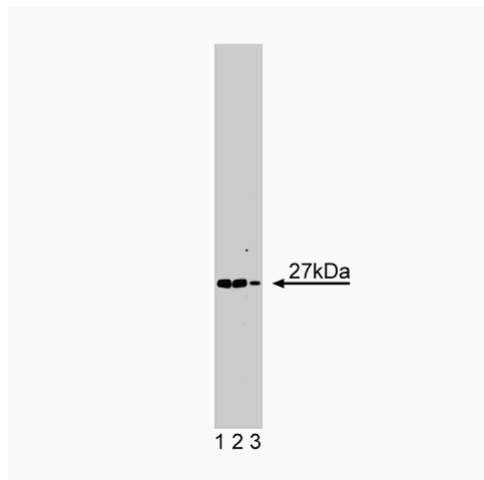
Purified Mouse Anti-Syntaxin 8

Product Information

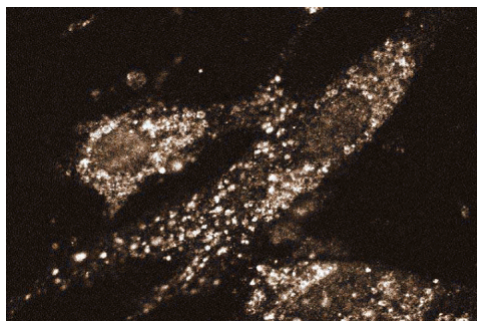
Material Number:	611352
Size:	50 µg
Concentration:	250 µg/ml
Clone:	48/Syntaxin 8
Immunogen:	Mouse Syntaxin 8 aa. 57-164
Isotype:	Mouse IgG2a
Reactivity:	QC Testing: Human Tested in Development: Dog, Rat, Mouse
Target MW:	27 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

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 docking state and/or membrane fusion. The syntaxin protein family contains a number of members that serve as functional t-SNAREs. One member of this family, syntaxin 8, has two coiled-coil domains, one in the N-terminus and one toward the C-terminus. The C-terminal domain is homologous to a similar domain in syntaxin 6 and is predicted to interact in the formation of SNARE complexes, while a hydrophobic domain in the C-terminus may be involved in membrane anchoring. Syntaxin-8 is ubiquitously expressed, but is present at high levels in the heart and localizes specifically to the ER. Thus, syntaxin-8 is a t-SNARE that is thought to be involved in the early secretory pathway of many different cell types.



Western blot analysis of Syntaxin 8 on human cell endothelial lysate. Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of anti-Syntaxin 8.



Immunofluorescent staining of WI38 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

Western blot	Routinely Tested
Immunofluorescence	Tested During Development

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharming/en/protocols/Western_Blotting.shtml.

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Suggested Companion Products

Catalog Number	Name	Size	Clone
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal
611450	Human Endothelial Cell 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/pharmlingen/protocols 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.

References

Steegmaier M, Yang B, Yoo JS. Three novel proteins of the syntaxin/SNAP-25 family. *J Biol Chem.* 1998; 273(51):34171-34179.(Biology)
Thoreau V, Bergès T, Callebaut I. Molecular cloning, expression analysis, and chromosomal localization of human syntaxin 8 (STX8). *Biochem Biophys Res Commun.* 1999; 257(2):577-583.(Biology)