Technical Data Sheet

Purified Mouse Anti-Rabaptin-5

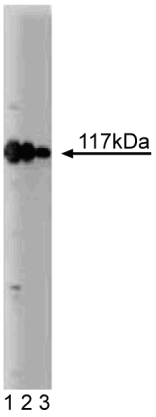
Product Information

Material Number:	**610676**
Size:	50 µg
Concentration:	250 µg/ml
Clone:	20/Rabaptin-5
Immunogen:	Human Rabaptin-5 aa. 247-417.
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human Tested in Development: Mouse, Rat
Target MW:	117 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

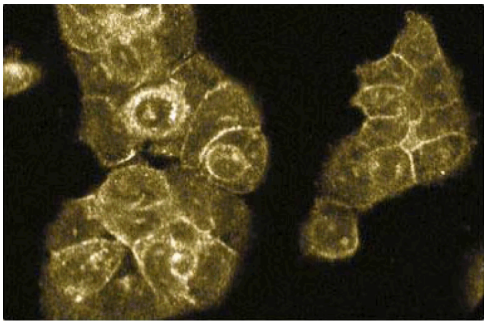
Description

Rabs are small GTP-binding proteins that are localized to specific intracellular vesicles and organelles. They are important for the regulation of vesicular traffic. It is thought that Rabs cycle between GTP- and GDP-bound forms and this cycle is related to their function. Rabaptin-5 is protein that interacts with GTP-Rab5. Although Rabaptin-5 is localized in the cytosol, it is also recruited to the endosomal fraction in a Rab5 and GTP-dependent manner. The removal of Rabaptin-5 from the cytosol substantially impairs GTP and Rab5-dependent endosomal fusion. This indicates that Rabaptin-5 may be an important partner of Rab5 during endocytosis. Rabaptin-5 contains 862 amino acids and both ends of the protein contain coiled-coil domains typically found in vesicular transport proteins.

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 rabaptin-5 on a MCF-7 lysate. *Lane 1: 1:500, lane 2: 1:1000, lane 3: 1:2000 dilution of the anti- rabaptin-5 antibody.*



Immunofluorescence staining of A431 cells.

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
Immunoprecipitation	Not Recommended
Immunohistochemistry	Not Recommended

Suggested Companion Products

Catalog Number	Name	Size	Clone
611548	MCF7 Cell Lysate	500 µg	(none)
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/pharmingen/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

Shiba Y, Takatsu H, Shin HW, Nakayama K. Gamma-adaptin interacts directly with Rabaptin-5 through its ear domain. *J Biochem (Tokyo)*. 2002; 131(3):327-336. (Biology: Western blot)

Stenmark H, Vitale G, Ullrich O, Zerial M. Rabaptin-5 is a direct effector of the small GTPase Rab5 in endocytic membrane fusion. *Cell.* 1995; 83(3):423-432. (Biology)

Zhu Y, Doray B, Poussu A, Lehto VP, Kornfeld S. Binding of GGA2 to the lysosomal enzyme sorting motif of the mannose 6-phosphate receptor. *Science*. 2001; 292(5522):1716-1718.(Biology: Immunofluorescence, Immunoprecipitation)