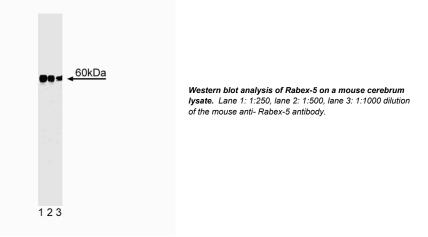
Technical Data Sheet Purified Mouse Anti- Rabex-5

Material Number:	612559
Alternate Name:	Rin2
Size:	150 µg
Concentration:	250 μg/ml
Clone:	27/Rabex-5
Immunogen:	Mouse Rabex-5 aa. 426-481
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Mouse Tested in Development: Rat, Human, Chicken
Target MW:	60 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and $\leq 0.09\%$ sodium azide.

Description

The Rab proteins are small GTP-binding molecules. They are localized to specific intracellular vesicles and organelles and are important for vesicular trafficking, cycling between an active GTP-bound and inactive GDP-bound form. Rab5 is associated with vesicle trafficking between the early endosomes and plasma membrane. In vitro, Rab5 proteins are removed from membranes by a GDP dissociation inhibitor protein (rabGDI). This leads to the formation of a cytosolic Rab5-rabGDI complex. Rab5 may insert into membranes by a multistep process in which a transient GDP-Rab5 intermediate is formed and converted into GTP- Rab5. Rabaptin-5 interacts with GTP-Rab5, and is recruited to the endosomal fraction in a Rab5/GTP-dependent manner. Removal of Rabaptin-5 from the cytosol substantially impairs GTP and Rab5-dependent endosomal fusion. Rabex-5 forms a complex with Rabaptin-5 and displays GDP/GTP exchange activity on Rab5 that promotes interaction between Rabaptin-5 and Rab5. Rabex-5 is also known as Rin2 based on its 15% identitiy with the RasGTPase-binding protein Rin1. Thus, Rabex-5/Rabaptin-5 complex is critical for Rab5 GDP/GTP exchange and membrane-associated activity.



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	Not Recommended				

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Recommended Assay Procedure:

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

Suggested Companion Products

Catalog Number	Name	Size	Clone	
611455	Mouse Cerebrum Lysate	500 μg	(none)	
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(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.
- 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

Horiuchi H, Lippe R, McBride HM. A novel Rab5 GDP/GTP exchange factor complexed to Rabaptin-5 links nucleotide exchange to effector recruitment and function. Cell. 1997; 90(6):1149-1159. (Biology)

Rubino M, Miaczynska M, Lippe R, Zerial M. Selective membrane recruitment of EEA1 suggests a role in directional transport of clathrin-coated vesicles to early endosomes. J Biol Chem. 2000; 275(6):3745-3748. (Biology)

Saito K, Murai J, Kajiho H, Kontani K, Kurosu H, Katada T. A novel binding protein composed of homophilic tetramer exhibits unique properties for the small GTPase Rab5. J Biol Chem. 2002; 277(5):3412-3418.(Biology)