

Technical Data Sheet

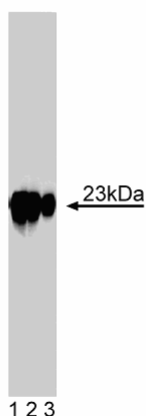
Purified Mouse Anti-Rab24

Product Information

Material Number:	612174
Size:	50 µg
Concentration:	250 µg/ml
Clone:	43/Rab24
Immunogen:	Mouse Rab24 aa. 115-203
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Mouse Tested in Development: Human, Dog, Rat
Target MW:	23 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

The Rab proteins are small GTP-binding molecules that are localized to specific intracellular vesicles and organelles. They regulate vesicular trafficking through mechanisms that require cycling between an active GTP-bound and inactive GDP-bound form. Rab1A and Rab1B mediate constitutive anterograde protein trafficking from ER to Golgi, while Rab8 and Rab11 regulate vesicle transport from the Golgi to the plasma membrane. Rab5A and Rab4 are involved in endocytosis, while Rab3A, Rab3B, and Rab3D may have specialized roles in regulated secretion in nerve terminals or endocrine cells. Rab24 was cloned from mouse brain, and has 52% identity with Rab5. The mRNA expression of Rab24 is highest in brain, but is found at lower expression in most other tissues. Rab24 protein is localized primarily to the intermediate region between the ER and Golgi, as well as in late endosomes. Rab24 may be an atypical member of the Rab family since it exists primarily in the GTP bound state, does not bind GDP dissociation inhibitors, and is not efficiently geranylgeranylated. Thus, Rab24 may have unique mechanisms for regulation of vesicular transport.



Western blot analysis of Rab24 on mouse cerebrum lysate. Lane 1: 1:5000, lane 2: 1:10000, lane 3: 1:20000 dilution of Rab24.

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

Suggested Companion Products

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

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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. 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

Erdman RA, Shellenberger KE, Overmeyer JH, Maltese WA. Rab24 is an atypical member of the Rab GTPase family. Deficient GTPase activity, GDP dissociation inhibitor interaction, and prenylation of Rab24 expressed in cultured cells. *J Biol Chem.* 2000; 275(6):3848-3856.(Biology)

Olkonen VM, Dupree P, Killisch I, Lutcke A, Zerial M, Simons K. Molecular cloning and subcellular localization of three GTP-binding proteins of the rab subfamily. *J Cell Sci.* 1993; 106(Pt 4):1249-1261.(Biology)