Technical Data Sheet

Purified Mouse Anti-Rab8

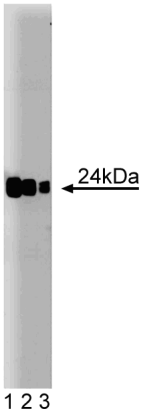
Product Information

Material Number:	**610845**
Size:	150 µg
Concentration:	250 µg/ml
Clone:	4/Rab4
Immunogen:	Human Rab8 aa. 84-205
Isotype:	Mouse IgG2b
Reactivity:	QC Testing: Human Tested in Development: Dog, Mouse, Rat, Drosophila
Target MW:	24 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

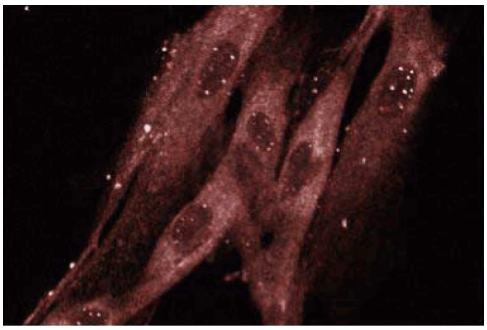
Description

The members of the Ras superfamily of GTPases, which now includes more than 50 different proteins, shuttle between the GDP-bound inactive position and the GTP-bound active state. The GTPase activity of the Ras-like proteins is regulated by effectors that promote either the GDP- or the GTP-bound states. GTPases of the Ras superfamily have a role in controlling numerous events such as cell proliferation, nucleocytoplasmic transport, and vesicular traffic. The Rab superfamily of proteins includes more than 30 different members that are involved in the regulation of different steps of vesicular traffic. Subcellular localization and specific cellular function of each Rab appears to be encoded in the unique C-terminal part of the proteins, known as the hypervariable region. The 207 amino acid Rab8 protein is closely related to the yeast Sec4p and regulates vesicle transport from the Trans-golgi Network to the basolateral plasma membrane in epithelial cells. In addition, Rab8 interacts with the stress-activated kinase rab8p, a close homologue of the GC Kinase. This interaction was found to be dependent on GTP.

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 Rab8 on a Jurkat cell lysate. *Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of the anti- Rab8 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
Immunoprecipitation	Not Recommended
Immunohistochemistry	Not Recommended

Suggested Companion Products

Catalog Number	Name	Size	Clone
611451	Jurkat 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

Bahadoran P, Aberdam E, Mantoux F, et al. Rab27a: A key to melanosome transport in human melanocytes. *J Cell Biol.* 2001; 152(4):843-849.(Biology: Western blot)

Chavrier P, Vingron M, Sander C, Simons K, Zerial M. Molecular cloning of YPT1/SEC4-related cDNAs from an epithelial cell line. *Mol Cell Biol.* 1990; 10(12):6578-6585.(Biology)

Hume AN, Collinson LM, Rapak A, Gomes AQ, Hopkins CR, Seabra MC. Rab27a regulates the peripheral distribution of melanosomes in melanocytes. *J Cell Biol.* 2001; 152(4):795-808.(Biology: Western blot)

Kessels MM, Engqvist-Goldstein AE, Drubin DG. Association of mouse actin-binding protein 1 (mAbp1/SH3P7), an Src kinase target, with dynamic regions of the cortical actin cytoskeleton in response to Rac1 activation. *Mol Biol Cell.* 2000; 11(1):393-412.(Biology: Immunofluorescence)

Nimmo ER, Sanders PG, Padua RA, Hughes D, Williamson R, Johnson KJ. The MEL gene: a new member of the RAB/YPT class of RAS-related genes. *Oncogene.* 1991; 6(8):1347-1351.(Biology)