Technical Data Sheet

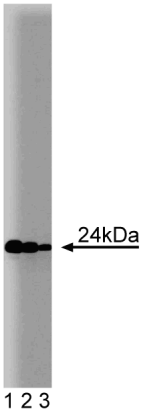
Purified Mouse Anti-Rab11

Product Information

Material Number:	**610657**
Size:	150 µg
Concentration:	250 µg/ml
Clone:	47/Rab11
Immunogen:	Human Rab11 aa. 86-207
Isotype:	Mouse IgG2a
Reactivity:	QC Testing: Dog Tested in Development: Human, Mouse, Rat, Chicken
Target MW:	24 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. It has been proposed that Rab proteins cycle between GTP- and GDP-bound forms and that this is related to their function as regulators of vesicular traffic. The *Rab11* gene encodes a 24 kDa protein of 214 amino acids that has been detected in liver, brain, testis, spleen, and heart. Rab11 protein was isolated from the golgi-microsomal fraction of rat liver and has been detected in the Trans-golgi Network, secretory vesicles, and the pericentriolar recycling endosomes. The distribution of Rab11 indicates that this small protein is involved in regulating traffic at the Golgi complex.



Western blot analysis of Rab11 on MDCK lysate. *Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of anti-MDCK.*

Preparation and Storage

Store undiluted at -20°C.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Application Notes

Application

Western blot	Routinely Tested
Immunohistochemistry	Tested During Development
Immunoprecipitation	Not Recommended

Suggested Companion Products

Catalog Number	Name	Size	Clone
611635	MDCK Cell Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)

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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. 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.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. Sodium azide is a reversible inhibitor of oxidative metabolism; therefore, antibody preparations containing this preservative agent must not be used in cell cultures nor injected into animals. Sodium azide may be removed by washing stained cells or plate-bound antibody or dialyzing soluble antibody in sodium azide-free buffer. Since endotoxin may also affect the results of functional studies, we recommend the NA/LE (No Azide/Low Endotoxin) antibody format, if available, for in vitro and in vivo use.
5. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

Choudhury A, Dominguez M, Puri V, et al. Rab proteins mediate Golgi transport of caveola-internalized glycosphingolipids and correct lipid trafficking in Niemann-Pick C cells. *J Clin Invest.* 2002; 109(12):1541-1550. (Clone-specific: Western blot)

Lai F, Stubbs L, Artzt K. Molecular analysis of mouse Rab11b: a new type of mammalian YPT/Rab protein. *Genomics.* 1994; 22(3):610-616. (Biology)

Sakurada K, Uchida K, Yamaguchi K, et al. Molecular cloning and characterization of a ras p21-like GTP-binding protein (24KG) from rat liver. *Biochem Biophys Res Commun.* 1991; 177(3):1224-1232. (Biology)

Steiner P, Sarria JC, Glauser L, Magnin S, Catsicas S, Hirling H. Modulation of receptor cycling by neuron-enriched endosomal protein of 21 kD. *J Cell Biol.* 2002; 157(7):1197-1209. (Clone-specific: Immunofluorescence, Western blot)

Woods AJ, Roberts MS, Choudhary J, et al. Paxillin associates with poly(A)-binding protein 1 at the dense endoplasmic reticulum and the leading edge of migrating cells. *J Biol Chem.* 2002; 277(8):6428-6437. (Clone-specific: Western blot)

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