# **Technical Data Sheet**

# **Purified Mouse Anti-Rab3**

#### **Product Information**

Immunogen: Rat Rab3A aa. 60-220

Isotype:Mouse IgG2aReactivity:QC Testing: Rat

Tested in Development: Dog

Target MW: 25 kDa

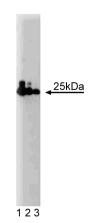
Storage Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium

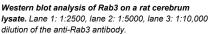
azide.

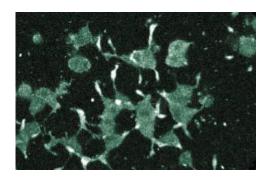
#### Description

The Rab proteins are small GTP-binding molecules that are localized to specific intracellular vesicles and organelles, and are important for vesicular traffic. It is thought that Rab proteins cycle through GTP- and GDP-bound forms and that this cycle is related to their function. Four highly homologous (77-85% identity) Rab3 proteins have been described: Rab3A, Rab3B, Rab3C, and Rab3D. Rab3A reportedly is expressed in neuronal and neuroendocrine cells and is associated with synaptic and synaptic-like vesicles. Rab3A is involved at a late stage of neurotransmitter exocytosis, perhaps at the recruitment of vesicles at the presynaptic membrane. Rab3B and Rab3C are also reportedly predominantly expressed in neurons and neuroendocrine tissues. In contrast, Rab3D has been reported to be highly enriched in fat cells and probably does not function sequentially in the same exocytic pathway as Rab3A.

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.







Immunofluorescence staining of PC12 cells (Rat neuroblastoma; ATCC CRL-1721).

#### **Preparation and Storage**

Store undiluted at -20° C.

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

## **BD** Biosciences

bdbiosciences.com

United States Canada Europe Japan Asia Pacific Latin America/Caribbear 877.232.8995 888.259.0187 32.53.720.550 0120.8555.90 65.6861.0633 55.11.5185.9995 For country-specific contact information, visit bdbiosciences.com/how to order/

Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton Dickinson and Company is strictly prohibited.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.

BD, BD Logo and all other trademarks are the property of Becton, Dickinson and Company. ©2006 BD



## **Application Notes**

### Application

_ 11		
Western blot	Routinely Tested	
Immunofluorescence	Tested During Development	
Immunohistochemistry	Tested During Development	
Immunoprecipitation	Not Recommended	

## **Suggested Companion Products**

Catalog Number	Name	Size	Clone	
611463	Rat Cerebrum 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.
- 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

Novick P, Brennwald P. Friends and family: the role of the Rab GTPases in vesicular traffic. *Cell.* 1993; 75(4):597-601.(Biology)
Yi Z, et al.. The Rab27a/Granuphilin Complex Regulates the Exocytosis of Insulin-Containing Dense-Core Granules. *Mol Cell Biol.* 2002; 22:1858-1867.(Biology: Immunofluorescence, Immunoprecipitation, Western blot)

610379 Rev. 1 Page 2 of 2