

Rab 3 Antibody
Affinity purified rabbit polyclonal antibody
Catalog # AN1118**Specification**

Rab 3 Antibody - Product Information

Application	WB
Primary Accession	P63012
Reactivity	Rat
Predicted	Human, Mouse, Monkey, Xenopus
Host	Rabbit
Clonality	polyclonal
Calculated MW	27 KDa

Rab 3 Antibody - Additional Information

Gene ID	25531
Gene Name	RAB3A
Other Names	
Ras-related protein Rab-3A, Rab3a	

Target/Specificity

Synthetic peptide corresponding to amino acid residues from the N-terminal region conjugated to KLH.

Dilution

WB~~ 1:1000

Format

Prepared from rabbit serum by affinity purification via chromatography on an affinity column made with the N-terminal peptide used as antigen.

Antibody Specificity

Specific for ~27k Rab3 protein.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Rab 3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping

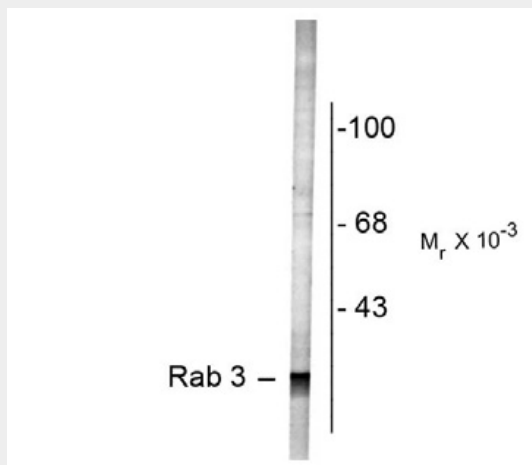
Blue Ice

Rab 3 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Rab 3 Antibody - Images



Western blot of rat cortex lysate showing specific labeling of the ~27k Rab3 protein.

Rab 3 Antibody - Background

Rab proteins belong to the Ras small GTPase superfamily. The GTP-binding Rab3 subfamily has 4 known isoforms: 3A, 3B, 3C, and 3D (Schluter et al., 2004). These proteins are expressed in highest concentrations in brain and endocrine tissues and involved in regulated exocytosis of hormones and neurotransmitters (Coppola et al., 2002). Specifically, Rab3's are thought to play a key role in presynaptic vesicle trafficking and priming (Schluter et al., 2006).

Rab 3 Antibody - References

Schluter OM, Schmitz F, Jahn R, Rosenmund C, Sudhof TC (2004) A Complete Genetic Analysis of Neuronal Rab3 Function. *J Neuroscience* 24(29):6629-6637

Schluter OM, Basu J, Sudhof TC, Rosenmund C (2006) Rab3 Superprimes Synaptic Vesicles for Release: Implications for Short-term Synaptic Plasticity. *J Neuroscience* 26(4):1239-1246.

Coppola T, Perret-Menoud V, Gattesco S, Magnin S, Pombo I, Blank U, Regazzi R (2002) The death domain of Rab3 guanine nucleotide exchange protein in GDP/GTP exchange activity in living cells. *J Biochem* 362 (Pt.2):273-9.