

For Research Use Only

# RAB3A Recombinant monoclonal antibody, PBS Only

Catalog Number: 87642-1-PBS



## Basic Information

|                                                             |                                                        |                                                       |
|-------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------|
| <b>Catalog Number:</b><br>87642-1-PBS                       | <b>GenBank Accession Number:</b><br>NM_002866.4        | <b>Purification Method:</b><br>Protein A purification |
| <b>Size:</b><br>100ug , Concentration: 1 mg/ml by Nanodrop; | <b>GeneID (NCBI):</b><br>5864                          | <b>CloneNo.:</b><br>253076A4                          |
| <b>Source:</b><br>Rabbit                                    | <b>UNIPROT ID:</b><br>P20336                           |                                                       |
| <b>Isotype:</b><br>IgG                                      | <b>Full Name:</b><br>RAB3A, member RAS oncogene family |                                                       |
| <b>Immunogen Catalog Number:</b><br>EG5438                  | <b>Calculated MW:</b><br>25 kDa                        |                                                       |
|                                                             | <b>Observed MW:</b><br>25-27 kDa                       |                                                       |

## Applications

**Tested Applications:**  
WB, Indirect ELISA

**Species Specificity:**  
human, mouse, rat

## Background Information

Rab3A is a small G-protein of the Rab family, that is implicated in vesicle fusion and regulated secretion, particularly in neurotransmitter release. Rab3 subfamily small G proteins (Rab3A, Rab3B, Rab3C, and Rab3D) control the regulated exocytosis in neuronal/secretory cells. Rab3A is the most abundant Rab GTPase in brain, where it is associated with synaptic vesicles. Rab3A is believed to modulate secretion efficiency by stimulating vesicle recruitment to sites of exocytosis and/ or by recruiting regulatory molecules to the docking/ fusion machinery.

## Storage

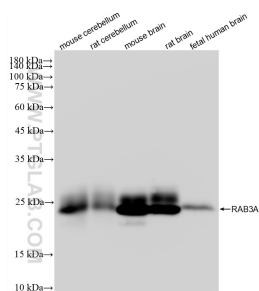
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only, pH7.3

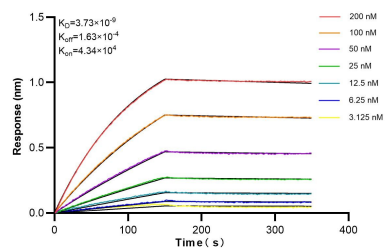
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87642-1-RR (RAB3A antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87642-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 87642-1-RR against Human RAB3A were performed. The affinity constant is 3.73 nM.