

For Research Use Only

# RAB3A Monoclonal antibody

Catalog Number: 68052-1-Ig **1 Publications**



## Basic Information

<b>Catalog Number:</b> 68052-1-Ig	<b>GenBank Accession Number:</b> BC011782	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 500 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5864	<b>CloneNo.:</b> 1B12E9
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P20336	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:500-1:2000
<b>Isotype:</b> IgG2b	<b>Full Name:</b> RAB3A, member RAS oncogene family	
<b>Immunogen Catalog Number:</b> AG8148	<b>Calculated MW:</b> 25 kDa	
	<b>Observed MW:</b> 25 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB	<b>WB :</b> pig brain tissue, rabbit brain tissue, rat brain tissue, mouse brain tissue, chicken brain tissue, rabbit cerebellum tissue, rat cerebellum tissue
<b>Species Specificity:</b> human, mouse, rat, pig, rabbit, chicken	<b>IHC :</b> rat testis tissue, mouse brain tissue
<b>Cited Species:</b> human	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yu Deng	39413198	Sci Adv	WB

## Storage

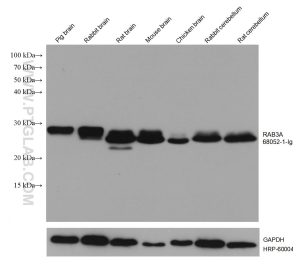
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

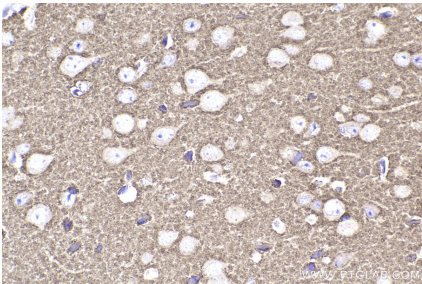
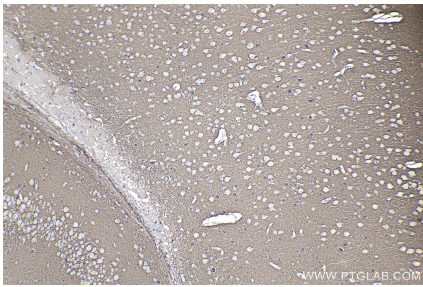
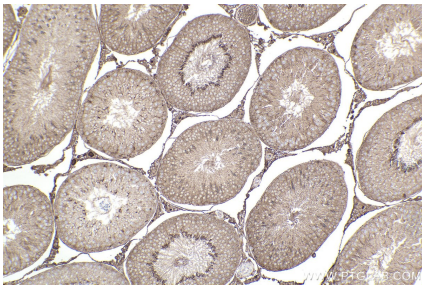
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## Selected Validation Data



pig brain tissue were subjected to SDS PAGE followed by western blot with 68052-1-Ig (RAB3A antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 68052-1-Ig (RAB3A antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).