

RPH3A Polyclonal Antibody

Catalog NumberPA5-35960

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human, Mouse, Rat
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Polyclonal	Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000
Type	Antibody	Western Blot (WB)	1:500-1:3,000
Immunogen	Recombinant fragment corresponding to a region within amino acids 1 and 240 of Rabphilin 3A	Immunocytochemistry (ICC/IF)	1:100-1:1,000
		Dilution *	
Conjugate	Unconjugated	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Form	Liquid		
Concentration	1 mg/mL		
Purification	Antigen affinity chromatography		
Storage buffer	PBS, pH 7, with 20% glycerol		
Contains	0.01% thimerosal		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

Recommended positive controls: mouse brain, rat brain. Predicted reactivity: Mouse (88%), Rat (88%), Bovine (90%). Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Background/Target Information

The carboxy-terminal of rabphilin-3A consists of two C2 domains, A and B, and the amino-terminal (residues 45-170) contains a cysteine-rich rich region with two zinc finger motifs. Rabphilin-3A belongs to a family of other carboxyterminal type (C-type) tandem C2 proteins, which includes synaptotagmins and Doc2. Rabphilin is expressed in neuroendocrine cells and co-localizes with Rab3A on synaptic vesicles and chromaffin granules. Rabphilin-3A binds Rab3a/GTP/Mg+ within amino-terminal residues 45 and 170. Rabphilin-3A binds calcium ions and phosphatidylinositol 4,5-bisphosphate containing lipid vesicles within its C2 domains. Rabphilin-3A is a positive regulator of calcium dependent exocytosis, while Rab3a is a negative regulator of exocytosis. Although rabphilin-3A associates with Rab3a, they seem to influence exocytosis independently of each other. Rabphilin-3A effects are likely mediated through interactions with an unknown factor that recognizes the Rab3 binding domain.

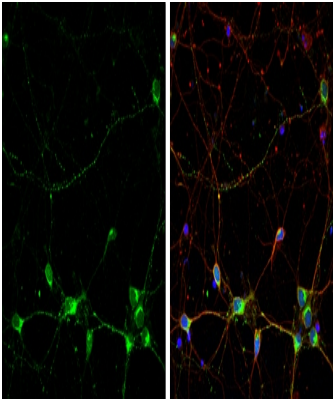
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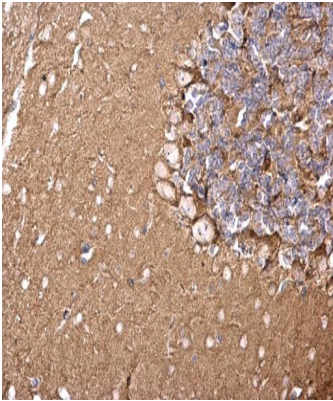
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Product Images For RPH3A Polyclonal Antibody



RPH3A Antibody (PA5-35960) in ICC/IF

Immunocytochemistry-Immunofluorescence analysis of RPH3A was performed in DIV9 rat E18 primary cortical neuron cells fixed in 4% paraformaldehyde at RT for 15 min. Green: RPH3A Polyclonal Antibody (Product # PA5-35960) diluted at 1:500. Red: beta Tubulin 3/ Tuj1, stained by beta Tubulin 3/ Tuj1 antibody. Blue: Fluoroshield with DAPI.



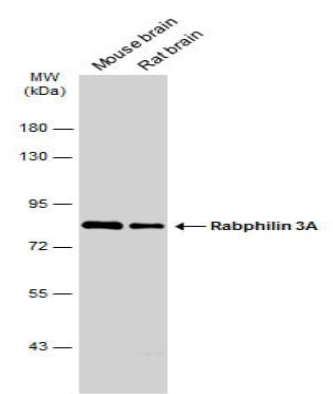
RPH3A Antibody (PA5-35960) in IHC (P)

RPH3A Polyclonal Antibody detects Rabphilin 3A protein at membrane on mouse hind brain by immunohistochemical analysis. Sample: Paraffin-embedded mouse hind brain. RPH3A Polyclonal Antibody (Product # PA5-35960) dilution: 1:500. Antigen Retrieval: EDTA based buffer, pH 8.0, 15 min.



RPH3A Antibody (PA5-35960) in IHC (P)

Immunohistochemistry (Paraffin) analysis of RPH3A was performed in paraffin-embedded rat brain tissue using RPH3A Polyclonal Antibody (Product # PA5-35960) at a dilution of 1:500.



RPH3A Antibody (PA5-35960) in WB

Western Blot analysis of RPH3A was performed by separating 50 µg of Various tissue extracts by 7.5% SDS-PAGE. Proteins were transferred to a membrane and probed with a RPH3A Polyclonal Antibody (Product # PA5-35960) at a dilution of 1:3000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.

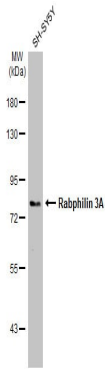
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RPH3A Antibody (PA5-35960) in WB

Western Blot using RPH3A Polyclonal Antibody (Product # PA5-35960). Whole cell extracts (30 µg) was separated by 7.5% SDS-PAGE, and the membrane was blotted with RPH3A Polyclonal Antibody (Product # PA5-35960) diluted at 1:1,000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



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