

RPH3A Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14129b**Specification**

RPH3A Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	Q9Y2J0
Other Accession	P47709 , P47708 , Q06846 , NP_001137326.1 , NP_055769.2
Reactivity	Human
Predicted	Bovine, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	76872
Antigen Region	658-686

RPH3A Antibody (C-term) - Additional Information**Gene ID** 22895**Other Names**

Rabphilin-3A, Exophilin-1, RPH3A, KIAA0985

Target/Specificity

This RPH3A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 658-686 amino acids from the C-terminal region of human RPH3A.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

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

Precautions

RPH3A Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

RPH3A Antibody (C-term) - Protein Information**Name** RPH3A

Synonyms KIAA0985

Function Plays an essential role in docking and fusion steps of regulated exocytosis (By similarity). At the presynaptic level, RPH3A is recruited by RAB3A to the synaptic vesicle membrane in a GTP- dependent manner where it modulates synaptic vesicle trafficking and calcium-triggered neurotransmitter release (By similarity). In the post-synaptic compartment, forms a ternary complex with GRIN2A and DLG4 and regulates NMDA receptor stability. Also plays a role in the exocytosis of arginine vasopressin hormone (By similarity).

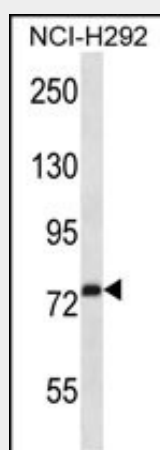
Cellular Location

Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane {ECO:0000250|UniProtKB:P47709}. Cell projection, dendritic spine {ECO:0000250|UniProtKB:P47709}. Postsynaptic cell membrane {ECO:0000250|UniProtKB:P47709}. Membrane {ECO:0000250|UniProtKB:P47709}; Peripheral membrane protein {ECO:0000250|UniProtKB:P47709}

RPH3A Antibody (C-term) - 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](#)

RPH3A Antibody (C-term) - Images

RPH3A Antibody (C-term) (Cat. #AP14129b) western blot analysis in NCI-H292 cell line lysates (35ug/lane). This demonstrates the RPH3A antibody detected the RPH3A protein (arrow).

RPH3A Antibody (C-term) - Background

Exocytosis of neurotransmitters and hormones is fundamental to synaptic neurotransmission and cell-cell communication. RAB3A (MIM 179390) is a small G protein that is thought to act at late stages of exocytosis, and RPH3A is a RAB3A

effector (Lin et al., 2007 [PubMed 17149709]).

RPH3A Antibody (C-term) - References

Katkoori, V.R., et al. Front. Biosci. 13, 1050-1061 (2008) :
Smith, R., et al. J. Neurochem. 103(1):115-123(2007)
Lin, C.C., et al. J. Cell. Physiol. 211(2):316-326(2007)
Dalfo, E., et al. Neurobiol. Dis. 16(1):92-97(2004)
Rastaldi, M.P., et al. Am. J. Pathol. 163(3):889-899(2003)