

Anti-Rabphilin 3A Antibody

Catalog # AP53368

Product Information

Application	WB, IHC, IF/IC
Primary Accession	Q9Y2J0
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	76872

Additional Information

Gene ID	22895
Other Names	KIAA0985; Rabphilin-3A; Exophilin-1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Rabphilin 3A. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

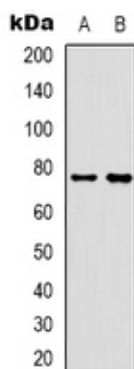
Protein Information

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}

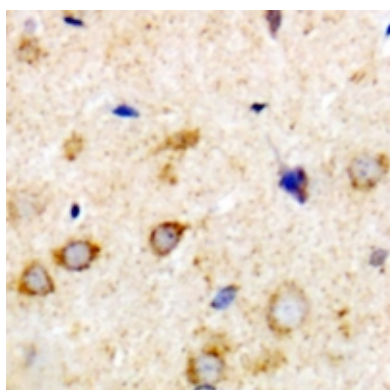
References

Nagase T.,et al.DNA Res. 6:63-70(1999).
Ota T.,et al.Nat. Genet. 36:40-45(2004).

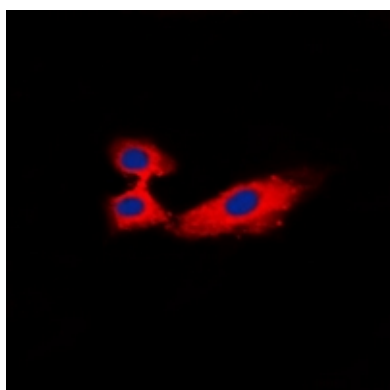
Images



Western blot analysis of Rabphilin 3A expression in HeLa (A), mouse muscle (B) whole cell lysates. (Predicted band size: 76 kD; Observed band size: 76 kD)



Immunohistochemical analysis of Rabphilin 3A staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Rabphilin 3A staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

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