

Rabbit Rabphilin 3A Polyclonal Antibody | anti-Rabphilin3A antibody

Rabphilin 3A Antibody

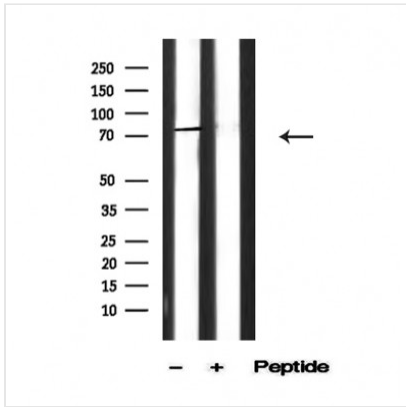
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329571	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)	ELISA, Western Blot

PRODUCT SYNONYMS

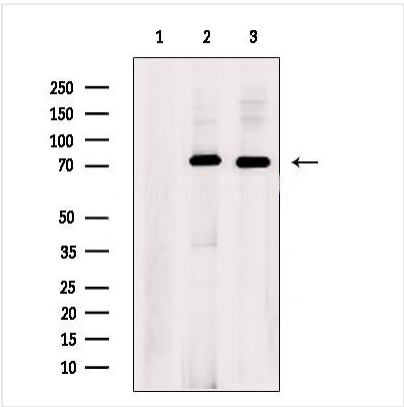
Rabphilin 3A; Polyclonal Antibody; Rabphilin 3A Antibody; Exophilin 1; Exophilin-1; Exophilin1; KIAA0985; Rabphilin 3A homolog; Rabphilin-3A; Rabphilin3A; RP3A; RP3A_HUMAN; Rph3a; Rph3a; anti-Rabphilin3A antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabphilin 3A Antibody detects endogenous levels of total Rabphilin 3A.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-Rabphilin3A antibody	ELISA (Peptide ELISA), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Rabphilin 3A, corresponding to a region within the internal amino acids.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Ubiquitinated. Deubiquitinated by CAND1 to prevent its degradation.
Subunit Structure	Interacts with RAB3B, RAB3C, RAB3D, RAB8A, RAB27A and RAB27B (By similarity). Interacts with RAB3A; this interaction recruits RPH3A to synaptic vesicles. Interacts (via C2B domain) with SNAP25 (By similarity). Interacts with deubiquitinating enzyme CAND1; this interaction results in the deubiquitination of RPH3A (By similarity). Interacts with GRIN2A and DLG4; this ternary complex regulates NMDA receptor composition at postsynaptic membranes (By similarity). Interacts with SNCA.
Similarity	Binds calcium via the C2 domains. The calcium-bound C2 domains mediate interactions with phospholipid bilayers (By similarity).
Subcellular Location	Cytoplasmic vesicle>Secretory vesicle>Synaptic vesicle membrane. Cell projection>Dendritic spine. Cell junction>Synapse>Postsynaptic cell membrane. Membrane>Peripheral membrane protein.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)
Western blot analysis of Rabphilin 3A in lysates of HeLa cells treated with TNF alpha 20ng/ml, 2mins, using Rabphilin 3A Antibody(AF4805).



WB (Western Blot)
Western blot analysis of extracts from various samples, using Rabphilin 3A Antibody. Lane 1: 3T3, treated with blocking peptide; Lane 2: 3T3; Lane 3: Pc12.

ADDITIONAL INFORMATION

Related Product Information for anti-Rabphilin3A antibody	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. Plays also a role in the exocytosis of arginine vasopressin hormone (By similarity).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	219804203
NCBI GeneID	22895
NCBI Accession #	NP_001137326.1
NCBI GenBank Nucleotide #	NM_001143854.1
UniProt Accession #	Q9Y2J0; Q96AE0; B7Z3C3
Molecular Weight	76,872 Da
NCBI Official Full Name	rabphilin-3A isoform 1
NCBI Official Synonym Full Names	rabphilin 3A homolog (mouse)
NCBI Official Symbol	RPH3A
NCBI Protein Information	rabphilin-3A; exophilin-1
UniProt Protein Name	Rabphilin-3A
UniProt Gene Name	RPH3A
UniProt Synonym Gene Names	KIAA0985
UniProt Entry Name	RP3A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.