

Rabphilin-3A (phospho Ser237) Polyclonal Antibody

Catalog No: YP0891

Reactivity: Human; Mouse; Rat

Applications: WB;IHC;IF;ELISA

Target: Rabphilin 3A

Gene Name: RPH3A

Protein Name: Rabphilin-3A

Q9Y2J0

P47708

Human Gene ld: 22895

Human Swiss Prot

No:

Mouse Gene ld: 19894

Mouse Swiss Prot

No:

Rat Gene Id: 171039

Rat Swiss Prot No: P47709

Immunogen: The antiserum was produced against synthesized peptide derived from human

Rabphilin 3A around the phosphorylation site of Ser237. AA range:203-252

Specificity: Phospho-Rabphilin-3A (S237) Polyclonal Antibody detects endogenous levels of

Rabphilin-3A protein only when phosphorylated at S237.

Formulation: Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution: WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:10000. Not

yet tested in other applications.

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

1/3



chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 75kD

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]).[supplied by OMIM, Jul

2008],

Function: function:Protein transport. Probably involved with Ras-related protein Rab-3A in

synaptic vesicle traffic and/or synaptic vesicle fusion. Could play a role in

neurotransmitter release by regulating membrane flow in the nerve

terminal., similarity: Contains 1 FYVE-type zinc finger., similarity: Contains 1 RabBD

(Rab-binding) domain., similarity: Contains 2 C2 domains.,

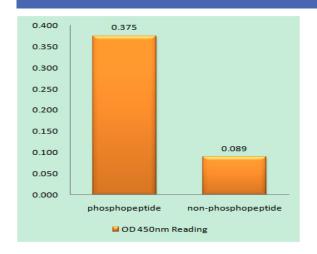
Subcellular Location:

Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane. Cell projection, dendritic spine. Cell junction, synapse, postsynaptic cell membrane.

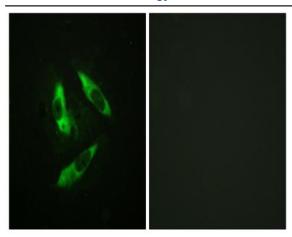
Membrane; Peripheral membrane protein.

Expression: Brain,Lung,

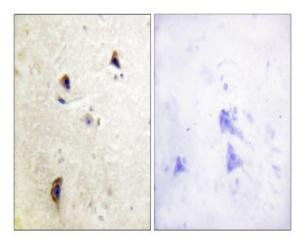
Products Images



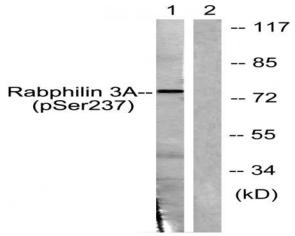
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Rabphilin 3A (Phospho-Ser237) Antibody



Immunofluorescence analysis of HeLa cells, using Rabphilin 3A (Phospho-Ser237) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human brain, using Rabphilin 3A (Phospho-Ser237) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from RAW264.7 cells treated with Calyculin 100nM 15', using Rabphilin 3A (Phospho-Ser237) Antibody. The lane on the right is blocked with the phospho peptide.