



Datasheet for ABIN361489

## anti-RPH3A antibody (pSer234)



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3 Images

1 Publication

### Overview

Quantity:	100 µL
Target:	RPH3A
Binding Specificity:	pSer234
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RPH3A antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

### Product Details

Immunogen:	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser234 conjugated to KLH
Specificity:	Specific for the ~82k rabphilin protein phosphorylated at Ser234. The immunolabeling of the rabphilin band was completely blocked by the phosphopeptide used as antigen while the dephosphopeptide had no effect on the immunolabeling
Cross-Reactivity:	Rat (Rattus)
Predicted Reactivity:	mouse
Purification:	Antigen Affinity Purified from Pooled Serum

### Target Details

Target:	RPH3A
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## Target Details

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Alternative Name:	RPH3A ( <a href="#">RPH3A Products</a> )
Background:	<p>Rabphilin-3A is a peripheral membrane protein that binds Ca<sup>2+</sup> and phospholipids and is attached to synaptic vesicle membranes (Geppert et al., 1994, Li et al., 1994). The expression of rabphilin 3A is reduced in an animal model of Huntington's disease (Smith et al., 2005).</p> <p>Rabphilin can be phosphorylated at Ser234 by both CAM kinase II and PKA and this phosphorylation has been suggested to regulate neuronal activity during development in a synapse-specific manner (Fykse et al., 1995, Foletti and Scheller, 2001). Anti-Phospho-Ser234 Rabphilin 3A Western blot of rat brain lysate showing specific immunolabeling of the ~82k rabphilin 3A phosphorylated at Ser234.</p>
Molecular Weight:	82 kDa
Gene ID:	171039
UniProt:	<a href="#">P47709</a>
Pathways:	<a href="#">Synaptic Vesicle Exocytosis</a>

## Application Details

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Application Notes:	Recommended Dilution: WB: 1:1000 IHC: 1:400 Quality Control: Western blots performed on each lot.
Restrictions:	For Research Use only

## Handling

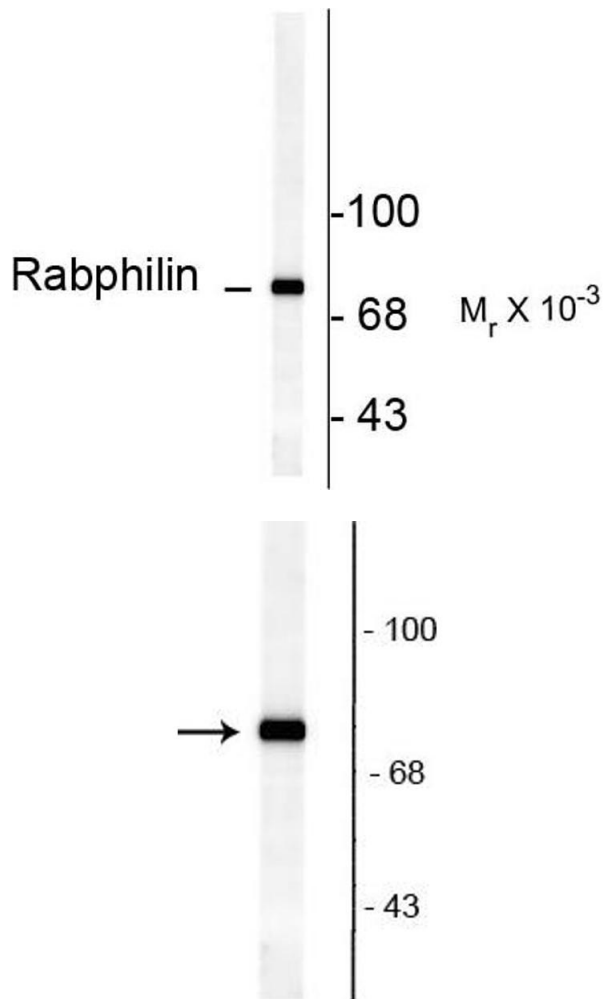
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Format:	Liquid
Buffer:	100 µL in 10 mM HEPES ( pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50 % glycerol.
Storage:	-20 °C

## Publications

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Product cited in:	Yang, Xu, Li, Duan, Fu, Zhang, Zhao, Qiao, Chen, Geng, Che, Cao, Wang, Zhang, Long, He, Cui, Chen, Wang, Liu: "Cloning and characterization of a novel intracellular protein p48.2 that negatively regulates cell cycle progression." in: <b>The international journal of biochemistry &amp; cell biology</b> , Vol. 41, Issue 11, pp. 2240-50, (2009) ( <a href="#">PubMed</a> ).
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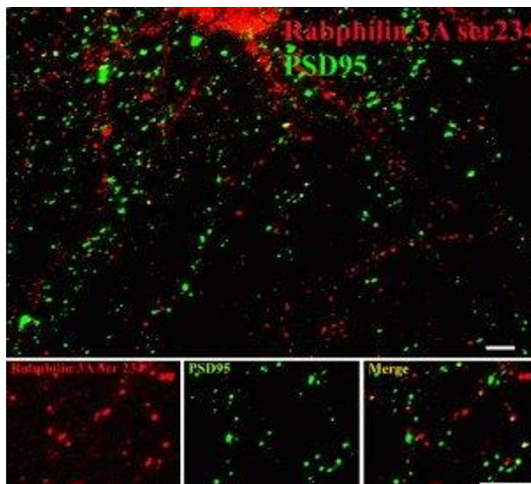


#### Western Blotting

**Image 1.** Western blots of rat brain lysate showing specific immunolabeling of the ~82k rabphilin 3A phosphorylated at Ser234.

#### Western Blotting

**Image 2.** Western blot of rat brain lysate showing specific immunolabeling of the ~82 kDa rabphilin 3A phosphorylated at Ser234.



#### Immunostaining

**Image 3.** Immunostaining of 14 DIV rat cortical neurons showing rabphilin when phosphorylated at Ser234 in red and PSD95 in green. Photo courtesy of Gang Liu.