



## Rabbit Anti-GRID2IP antibody

SL11347R

<b>Product Name:</b>	GRID2IP
<b>Chinese Name:</b>	谷氨酸受体δ2/GluR-δ2抗体
<b>Alias:</b>	Delphilin; delta 2 interacting protein 1; Grid Delta2; GluR-Delta 2 Glutamate receptor; GRD2I HUMAN; grid2ip; ionotropic.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Cow,Horse,Sheep,
<b>Applications:</b>	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	132kDa
<b>Cellular localization:</b>	The cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human GRID2IP:921-1020/1121
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	Grid2ip is a postsynaptic scaffolding protein that contains one formin homology 2 (FH2) domain and two PDZ (postsynaptic density-95/discs-large/ZO-1) domains. Expressed in Purkinje cells of the cerebellum and localizing specifically to parallel fiber synapses, Grid2ip interacts with the C-terminus of GluR-Delta 2 and, via this interaction, links GluR-Delta 2 with various signaling molecules and the Actin cytoskeleton. GluR-Delta 2 is a glutamate receptor with an important role in motor

learning, cerebellar wiring and synaptic plasticity. Due to alternative splicing events, three Grid2ip isoforms exist, namely L-delphilin, S-delphilin (or delphilin-Alpha) and delphilin-Beta. Each isoform exhibits individual expression patterns and protein interactions. Isoform 2, delphilin-Alpha, is palmytoylated, a modification that is essential for the enhanced expression of GluR-Delta 2 on the cell surface. This modification of delphilin-Alpha also mediates the accumulation of delphilin-Alpha in dendritic spines.

**Function:**

Postsynaptic scaffolding protein at the parallel fiber-Purkinje cell synapse, where it may serve to link GRID2 with actin cytoskeleton and various signaling molecules.

**Subcellular Location:**

Cell junction > synapse > postsynaptic cell membrane.

**Similarity:**

Contains 1 FH2 (formin homology 2) domain.  
Contains 2 PDZ (DHR) domains.

**SWISS:**

A4D2P6

**Gene ID:**

392862

**Database links:**

[Entrez Gene: 392862](#)Human

[Omim: 610639](#)Human

[SwissProt: A4D2P6](#)Human

[Unigene: 512174](#)Human

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.