

GRID2IP Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP54463

Product Information

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	A4D2P6
Reactivity	Rat, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	132276
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GRID2IP
Epitope Specificity	921-1020/1121
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell junction > synapse > postsynaptic cell membrane.
SIMILARITY	Contains 1 FH2 (formin homology 2) domain. Contains 2 PDZ (DHR) domains.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	392862
Other Names	Delphilin, Glutamate receptor, ionotropic, delta 2-interacting protein 1, GRID2IP
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000

Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	GRID2IP
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.
Cellular Location	Postsynaptic cell membrane.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.