bs-11347R **[Primary Antibody]**

GRID2IP Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 392862 **SWISS:** A4D2P6

Target: GRID2IP

Immunogen: KLH conjugated synthetic peptide derived from human GRID2IP: 921-1020/1121.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: 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.

Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
ICC/IF (1:100-500)
ELISA (1:5000-10000)

Reactivity: (predicted: Human, Mouse, Rat, Sheep, Cow, Dog, Horse)

Predicted MW.: 132 kDa

Subcellular Location: Cell membrane

SELECTED CITATIONS

- **[IF=32.1]** Chen Danping. et al. Connectome-seq: high-throughput mapping of neuronal connectivity at single-synapse resolution via barcode sequencing. NAT METHODS. 2026 Mar;:1-16 IF ;Mouse. 41820665

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