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## GRID2IP Rabbit pAb

Catalog Number: bs-11347R

Target Protein: GRID2IP

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

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

Entrez Gene: 392862

Swiss Prot: A4D2P6

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

Purification: affinity purified by Protein A

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.