

KD-Validated Anti-Gephyrin Mouse Monoclonal Antibody
Mouse monoclonal antibody
Catalog # AGI1901**Specification****KD-Validated Anti-Gephyrin Mouse Monoclonal Antibody - Product Information**

Application	WB, FC
Primary Accession	Q9NOX3
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	Mouse IgG2a
Calculated MW	Predicted, 80 kDa, observed, 80 kDa kDa
Gene Name	GPHN
Aliases	GPHN; Gephyrin; KIAA1385; GPH; GEPH; GPHRYN; MOCODC; HKPX1
Immunogen	Recombinant protein of human GPHN

KD-Validated Anti-Gephyrin Mouse Monoclonal Antibody - Additional InformationGene ID **10243****Other Names**

Gephyrin, Molybdopterin adenylyltransferase, MPT adenylyltransferase, 2.7.7.75, Domain G, Molybdopterin molybdenumtransferase, MPT Mo-transferase, 2.10.1.1, Domain E, GPHN (http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=15465)
target="_blank">HGNC:15465), GPH, KIAA1385

KD-Validated Anti-Gephyrin Mouse Monoclonal Antibody - Protein InformationName GPHN ([HGNC:15465](#))

Synonyms GPH, KIAA1385

Function

Microtubule-associated protein involved in membrane protein- cytoskeleton interactions. It is thought to anchor the inhibitory glycine receptor (GLYR) to subsynaptic microtubules (By similarity). Acts as a major instructive molecule at inhibitory synapses, where it also clusters GABA type A receptors (PubMed:<http://www.uniprot.org/citations/25025157>)
target="_blank">25025157, PubMed:<http://www.uniprot.org/citations/26613940>
target="_blank">26613940).

Cellular Location

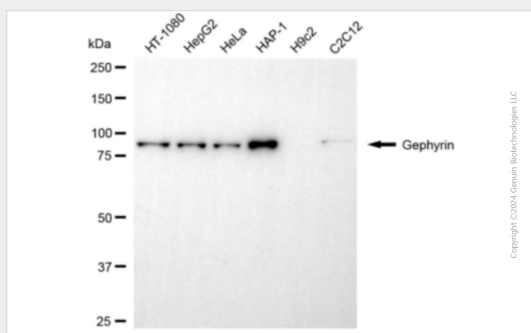
Postsynaptic cell membrane; Lipid- anchor; Cytoplasmic side. Cell membrane {ECO:0000250|UniProtKB:Q03555}; Lipid-anchor {ECO:0000250|UniProtKB:Q03555}; Cytoplasmic side {ECO:0000250|UniProtKB:Q03555}. Cytoplasm, cytosol. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:Q03555}. Cell projection, dendrite. Postsynaptic density {ECO:0000250|UniProtKB:Q8BUV3}. Note=Cytoplasmic face of glycinergic postsynaptic membranes (By similarity). Forms clusters at synapses (PubMed:25025157). {ECO:0000250|UniProtKB:Q03555, ECO:0000269|PubMed:25025157}

KD-Validated Anti-Gephyrin Mouse Monoclonal Antibody - Protocols

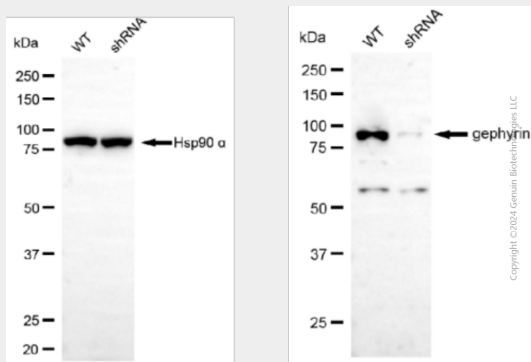
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

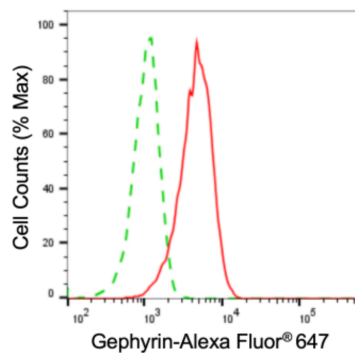
KD-Validated Anti-Gephyrin Mouse Monoclonal Antibody - Images



Western blotting analysis using anti-gephyrin antibody (Cat#AGI1901). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-gephyrin antibody (Cat#AGI1901, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Western blotting analysis using anti-gephyrin antibody (Cat#AGI1901). Gephyrin expression in wild type (WT) and gephyrin (GPHN) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-gephyrin antibody (Cat#AGI1901, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Flow cytometric analysis of Gephyrin expression in HAP-1 cells using anti-Gephyrin antibody (Cat#AGI1901, 1:2,000). Green, isotype control; red, Gephyrin.