10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

GPHN Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP9785c

Specification

GPHN Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q9NQX3

GPHN Antibody (Center) Blocking Peptide - Additional Information

Gene ID 10243

Other Names
Gephyrin, Molybdopterin adenylyltransferase, MPT adenylyltransferase, Domain G, Molybdopterin molybdenumtransferase, MPT Mo-transferase, Domain E, GPHN, GPH, KIAA1385

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GPHN Antibody (Center) Blocking Peptide - Protein Information

Name 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:25025157, PubMed: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}

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GPHN Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

GPHN Antibody (Center) Blocking Peptide - Images

GPHN Antibody (Center) Blocking Peptide - Background

GPHN encodes a neuronal assembly protein that anchors inhibitory neurotransmitter receptors to the postsynaptic cytoskeleton via high affinity binding to a receptor subunit domain and tubulin dimers. In nonneuronal tissues, the encoded protein is also required for molybdenum cofactor biosynthesis. Mutations in this gene may be associated with the neurological condition hyperplexia and also lead to molybdenum cofactor deficiency.

GPHN Antibody (Center) Blocking Peptide - References

Tabakoff, B., et al. BMC Biol. 7, 70 (2009) Fritschy, J.M., et al. Trends Neurosci. 31(5):257-264(2008)Inada, T., et al. Pharmacogenet. Genomics 18(4):317-323(2008)Sugiyama, N., et al. Mol. Cell Proteomics 6(6):1103-1109(2007)Ehrensperger, M.V., et al. Biophys. J. 92(10):3706-3718(2007)Olsen, J.V., et al. Cell 127(3):635-648(2006)