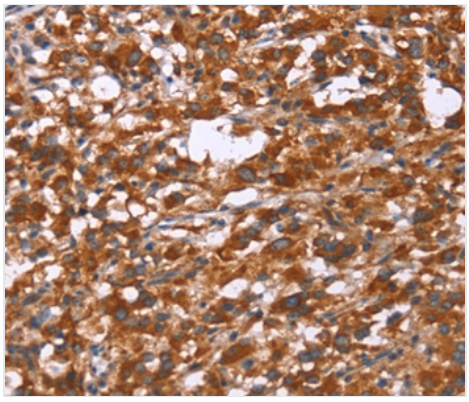
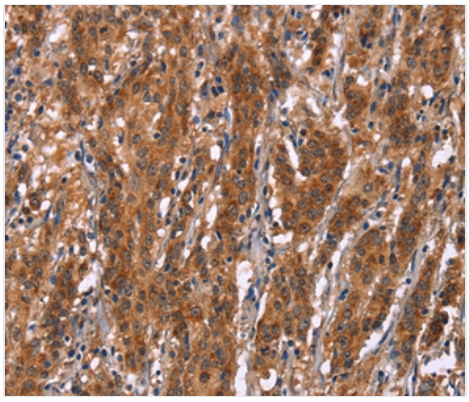
# GPHN Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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|---|---|
| **Product Name** | GPHN, Polyclonal Antibody |
| **Full Product Name** | GPHN Antibody |
| **Product Gene Name** | anti-GPHN antibody |
| **Product Synonym Names** | Geph |
| **Clonality** | Polyclonal |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse, Rat |
| **Form/Format** | Rabbit IgG in pH7.3 PBS, 0.05% NaN3, 50% Glycerol. |
| **Purity/Purification** | Antigen affinity purification. |
| **Concentration** | 1.5 mg/ml (lot specific) |
| **Specificity** | The antibody detects endogenous levels of total GPHN protein. |
| **Preparation and Storage** | Store at -20 degree C |
| **3D Structure** | ModBase 3D Structure for Q03555 |
| **Immunogen Type** | Peptide |
| **Immunogen Description** | Synthetic peptide corresponding to a region derived from internal residues of human gephyrin |
| **Target Name** | GPHN |
| **Product Categories/Family for anti-GPHN antibody** | Total protein Ab |
| **Applications Tested/Suitable for anti-GPHN antibody** | Immunohistochemistry (IHC) |
| **Application Notes for anti-GPHN antibody** | Immunohistochemistry: 1:50-1:200 |
| **Related Product Information for anti-GPHN antibody** | Gephyrin is a microtubule-associated protein highly expressed in brain and localized to neuronal postsynaptic membranes. Gephyrin is essential for the postsynaptic localization of the inhibitory glycine receptor and is thought to anchor the receptor to subsynaptic microtubules. The protein is expressed in most mammalian tissues with predominant expression in brain. At least five additional splice variants of Gephyrin ranging in molecular weight have been identified in rat and human brain tissue. |
| **Other Notes** | Small volumes of anti-GPHN antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for GPHN purchase** | MBS9413824 is an antibody targeting GPHN. Also known as GPHN Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit. |



**Immunohistochemistry (IHC) of anti-GPHN antibody**
Immunohistochemical analysis of paraffin-embedded Human thyroid cancer tissue using at dilution 1/30.



**Immunohistochemistry (IHC) of anti-GPHN antibody**
Immunohistochemical analysis of paraffin-embedded Human gastric cancer tissue using at dilution 1/30.

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GPHN. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 88853561 |
| **NCBI GeneID** | 64845 |
| **NCBI Accession #** | NP_074056.2 |
| **UniProt Primary Accession #** | Q03555 |
| **UniProt Related Accession #** | Q03555 |
| **GenBank Nucleotide #** | NM_022865.3 |
| **NCBI Official Full Name** | gephyrin |
| **NCBI Official Synonym Full Names** | gephyrin |
| **NCBI Official Symbol** | Gphn |
| **NCBI Official Synonym Symbols** | Geph |
| **UniProt Protein Name** | Gephyrin |
| **UniProt Synonym Protein Names** | Putative glycine receptor-tubulin linker proteinIncluding the following 2 domains:Molybdopterin adenylyltransferase (EC:2.7.7.75); MPT adenylyltransferaseAlternative name(s):Domain G |
| **Protein Family** | Gephyrin |
| **UniProt Gene Name** | Gphn |
| **UniProt Synonym Gene Names** | Gph; MPT adenylyltransferase; MPT Mo-transferase |
| **UniProt Entry Name** | GEPH_RAT |
| **NCBI Protein Information** | gephyrin |
| **NCBI Summary for GPHN** | plays a role in molybdenum cofactor biosynthesis; may play a role in membrane protein-cytoskeleton interactions [RGD, Feb 2006] |

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| **UniProt Comments for GPHN** | gephyrin: Microtubule-associated protein involved in membrane protein-cytoskeleton interactions. It is thought to anchor the inhibitory glycine receptor (GLYR) to subsynaptic microtubules. Catalyzes two steps in the biosynthesis of the molybdenum cofactor. In the first step, molybdopterin is adenylated. Subsequently, molybdate is inserted into adenylated molybdopterin and AMP is released. Homotrimer. Interacts with GABARAP. Inhibited by copper and tungsten. 2 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: Adaptor/scaffold; EC 2.10.1.1; EC 2.7.7.75<br><br>Cellular Component: postsynaptic membrane; cytoskeleton; cytoplasm; synapse; intracellular; cell junction<br><br>Molecular Function: protein binding, bridging; tubulin binding; protein binding; protein homodimerization activity; metal ion binding; protein complex scaffold; ATP binding; receptor binding<br><br>Biological Process: establishment of protein localization; synaptogenesis; molybdenum incorporation into molybdenum-molybdopterin complex; establishment of synaptic specificity at neuromuscular junction; Mo-molybdopterin cofactor biosynthetic process; protein homooligomerization; protein targeting |
| **Research Articles on GPHN** | **1.** Results show that PKC-dependent phosphorylation of GAP43 plays a critical role in regulating postsynaptic gephyrin aggregation in developing GABAergic synapses. |
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