

Rabbit anti-Human Gephyrin/GPHN Polyclonal Antibody | anti-GPHN antibody

Anti-Gephyrin/GPHN Antibody, Rabbit Polyclonal

CATALOG # AAA256748	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

Gephyrin/GPHN; Polyclonal Antibody; Anti-Gephyrin/GPHN Antibody; Rabbit Polyclonal; Gephyrin/GPHN Antibody; Rabbit PAb; Antigen Affinity Purified; Anti-GEPH Antibody; Anti-Gephyrin Antibody; Anti-GPH Antibody; Anti-GPHN Antibody; Anti-GPHRYN Antibody; Anti-HKPX1 Antibody; Anti-MOCODC Antibody; anti-GPHN antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human Gephyrin/GPHN
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-GPHN antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived Human Gephyrin/GPHN fragment
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with E Coli-derived Human Gephyrin/GPHN fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Immunochemical staining of human GPHN in human brain with rabbit polyclonal antibody at 1:500 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)

Immunochemical staining of human GPHN in human gallbladder with rabbit polyclonal antibody at 1:500 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)

Immunochemical staining of human GPHN in human kidney with rabbit polyclonal antibody at 1:500 dilution, formalin-fixed paraffin embedded sections.



WB (Western Blot)

Anti-Gephyrin/GPHN rabbit polyclonal antibody at 1:500 dilution. Lane A: MCF7 Whole Cell Lysate. Lane B: U251MG Whole Cell Lysate. Lysates/proteins at 30 ug per lane. Secondary: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 80 kDa. Observed band size: 95 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-GPHN antibody

Gephyrin (GPHN) was originally identified as a submembranous scaffold protein that anchors and immobilizes postsynaptic membrane neurotransmitter receptors to underlying cytoskeletal elements. It also is reported to bind to phosphatidylinositol 3, 4, 5-triphosphate binding proteins involved in actin dynamics and downstream signaling and interacts with ATM-related family member RAFT1. The GPHN gene codes for gephyrin, a key scaffolding protein in the neuronal postsynaptic membrane, responsible for the clustering and localization of glycine and GABA receptors at inhibitory synapses. Gephyrin has well-established functional links with several synaptic proteins that have been implicated in genetic risk for neurodevelopmental disorders such as autism spectrum disorder (ASD), schizophrenia and epilepsy including the neuroligins (NLGN2, NLGN4), the neurexins (NRXN1, NRXN2, NRXN3) and collybistin (ARHGEF9). Moreover, temporal lobe epilepsy has been linked to abnormally spliced GPHN mRNA lacking exons encoding the G-domain of the gephyrin protein, potentially arising due to cellular stress associated with epileptogenesis such as temperature and alkalosis.

References

van der Spek SJF, et al. (2020) Glycine receptor complex analysis using immunoprecipitation-blue native gel electrophoresis-mass spectrometry. *Proteomics* 20 (3-4): e1900403. Rees MI, et al. (2003) Isoform heterogeneity of the human gephyrin gene (gphn), binding domains to the glycine receptor, and mutation analysis in hyperekplexia. *J Biol Chem* 278 (27): 24688-24696. Lionel AC, et al. (2013) Rare exonic deletions implicate the synaptic organizer gephyrin (gphn) in risk for autism, schizophrenia and seizures. *Hum Mol Genet* 22 (10): 2055-2066.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/gephyrin-gphn-antibody-immunohistochemistry-western-blot-elisa/256748>