




Anti-Gephyrin antibody ab185993

[1 References](#) [2 Images](#)

Overview

Product name	Anti-Gephyrin antibody
Description	Rabbit polyclonal to Gephyrin
Host species	Rabbit
Tested applications	Suitable for: WB, IP
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Rabbit, Chicken, Guinea pig, Cow, Dog, Pig, Xenopus laevis, Zebrafish, Xenopus tropicalis 
Immunogen	<p>Synthetic peptide within Human Gephyrin aa 250-350. The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please contact our Scientific Support team to discuss your requirements. NP_001019389.1.</p> <p>Database link: Q9NQX3</p> <div>  Run BLAST with  Run BLAST with </div>
Positive control	HeLa, 293T and Jurkat cell lysates.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	<p>pH: 7</p> <p>Preservative: 0.09% Sodium azide</p> <p>Constituent: 99% Tris citrate/phosphate</p> <p>pH 7-8</p>

Purity	Immunogen affinity purified
Purification notes	ab185993 was affinity purified using an epitope specific to Gephyrin immobilized on solid support.
Clonality	Polyclonal
Isotype	IgG

Applications

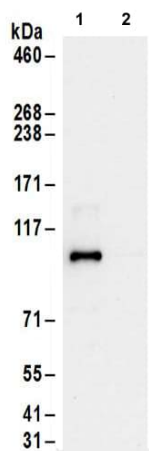
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab185993 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/2000 - 1/10000. Predicted molecular weight: 80 kDa.
IP		Use at 2-10 µg/mg of lysate.

Target

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). 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.
Pathway	Cofactor biosynthesis; molybdopterin biosynthesis.
Involvement in disease	Defects in GPHN are the cause of molybdenum cofactor deficiency type C (MOCOD type C) [MIM:252150]. MOCOD type C is an autosomal recessive disease which leads to the pleiotropic loss of all molybdoenzyme activities and is characterized by severe neurological damage, neonatal seizures and early childhood death. Defects in GPHN are a cause of startle disease (STHE) [MIM:149400]; also known as hyperekplexia. STHE is a genetically heterogeneous neurologic disorder characterized by muscular rigidity of central nervous system origin, particularly in the neonatal period, and by an exaggerated startle response to unexpected acoustic or tactile stimuli.
Sequence similarities	In the N-terminal section; belongs to the moaB/mog family. In the C-terminal section; belongs to the moeA family.
Cellular localization	Cell junction > synapse. Cell junction > synapse > postsynaptic cell membrane. Cytoplasm > cytoskeleton. Cytoplasmic face of glycinergic postsynaptic membranes.

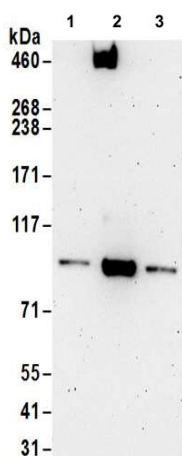
Images



Immunoprecipitation - Anti-Gephyrin antibody
(ab185993)

Detection of Gephyrin in Immunoprecipitates of 293T whole cell lysates (1 mg for IP, 20% of IP loaded) using ab185993 at 6 µg/mg lysate for IP (Lane 1). For WB detection, ab185993 was used at 1 µg/ml. Lane 2 represents control IgG IP.

Detection: Chemiluminescence with an exposure time of 10 seconds.



Western blot - Anti-Gephyrin antibody (ab185993)

All lanes : Anti-Gephyrin antibody (ab185993) at 0.1 µg/ml

Lane 1 : HeLa cell lysate

Lane 2 : 293T cell lysate

Lane 3 : Jurkat cell lysate

Lysates/proteins at 50 µg per lane.

Developed using the ECL technique.

Predicted band size: 80 kDa

Exposure time: 3 minutes

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