

Gephyrin(JG34-47)

Cat#: ET7108-04

Product Type: Recombinant rabbit monoclonal IgG, primary antibodies

Species reactivity: Human, Mouse, Rat

Applications: WB, IHC

Molecular Wt.: 80 kDa

Clone number: JG34-47

Description: The sub-membraneous region at the postsynaptic membrane contains a number of proteins critical for receptor targeting. 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.

Immunogen:

Recombinant protein within human Gephyrin aa 1-100.

Positive control:

SK-Br-3, rat kidney tissue, human kidney tissue, mouse brain tissue.

Subcellular location:

Plasma membrane. Cytoskeleton.

Database links:

SwissProt: Q9NQX3 (Human) Q03555 (Rat)

Recommended Dilutions:

WB: 1:500-1:2,000 **IHC:** 1:50-1:200

Storage Buffer:

1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction:

Store at +4° C after thawing. Aliquot store at -20° C. Avoid repeated freeze / thaw cycles.

Purity:

ProA affinity purified.

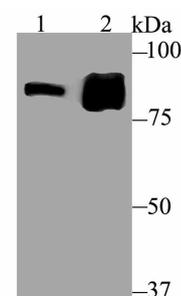


Fig1: Western blot analysis of Gephyrin on SK-Br-3 cell (1) and rat kidney tissue (2) lysate using anti-Gephyrin antibody at 1/500 dilution.

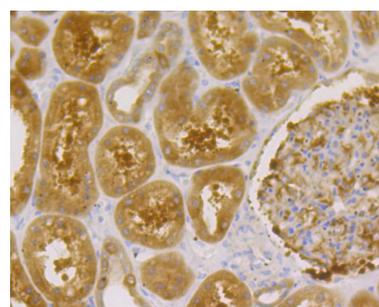


Fig2: Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-Gephyrin antibody. Counter stained with hematoxylin. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6) for 20 mins.

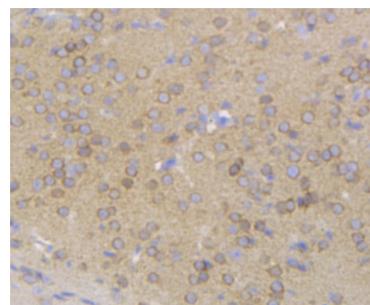


Fig3: Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-Gephyrin antibody. Counter stained with hematoxylin. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6) for 20 mins.

Hangzhou HuaAn Biotechnology Co.,Ltd.

Orders: 0086-571-88062880

Support: 0086-571-89986345

Service mail: tech@huabio.com

www.huabio.com



华安生物

Applications: WB=Western blot IP=Immunoprecipitation IHC=Immunohistochemistry IF=Immunofluorescence FC=Flow cytometry
Species Cross-Reactivity: H=human M=mouse R=rat Hm=hamster Mk=monkey Mi=mink C=chicken Dm=D.melanogaster X=Xenopus Z=zebrafish
B=bovine Dg=dog Pg=pig Sc=S.

Background References

1. Dejanovic B et al. Simultaneous impairment of neuronal and metabolic function of mutated gephyrin in a patient with epileptic encephalopathy. *EMBO Mol Med* 7:1580–1594 (2015).
2. Reiss J et al. A GPHN point mutation leading to molybdenum cofactor deficiency. *Clin Genet* 80:598–599 (2011).

Hangzhou HuaAn Biotechnology Co.,Ltd.

Orders: 0086-571-88062880 Support: 0086-571-89986345 Service mail: tech@huabio.com www.huabio.com



Applications: WB=Western blot IP=Immunoprecipitation IHC=Immunohistochemistry IF=Immunofluorescence FC=Flow cytometry
Species Cross-Reactivity: H=human M=mouse R=rat Hm=hamster Mk=monkey Mi=mink C=chicken Dm=D.melanogaster X=Xenopus Z=zebrafish
B=bovine Dg=dog Pg=pig Sc=S.