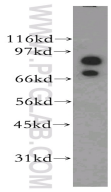
USA: proteintech@ptglab.com

Europe: europe@ptglab.com

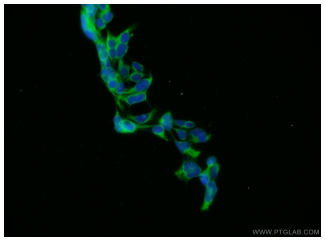
China: service@ptglab.com

gephyrin Polyclonal Antibody

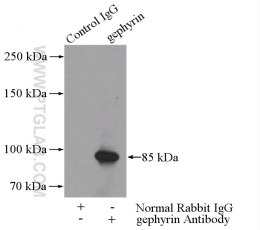
Catalog number: 12681-1-AP
Size: 41 µg/150 µl
Source: Rabbit
Isotype: IgG
Synonyms:
GPHN; Domain E, GEPH, gephyrin, GPH, GPHN, GPHRYN, KIAA1385, MPT adenylyltransferase, MPT Mo transferase



human brain tissue were subjected to SDS PAGE followed by western blot with 12681-1-AP(GPHN antibody) at dilution of 1:400



Immunofluorescent analysis of HEK-293 cells using 12681-1-AP(GPHN Antibody) at dilution of 1:50 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)



IP Result of anti-GPHN (IP:12681-1-AP, 4ug; Detection:12681-1-AP 1:700) with HEK-293 cells lysate 3200ug.

Background

Gephyrin (GPHN) is an organizational protein that clusters and localizes the inhibitory glycine receptor (GlyR) and GABAA receptors to the microtubular matrix of the neuronal postsynaptic membrane. Mice deficient in gephyrin develop a hereditary molybdenum cofactor deficiency and a neurological phenotype that mimics startle disease (hyperekplexia). In non-neuronal tissues, the encoded protein is also required for molybdenum cofactor biosynthesis. Two isoforms produced by alternative splicing have been described. The observed MW of Gephyrin is 93 kDa, larger than the predicated of 83 kDa, which may be due to the modifications on various phosphorylation sites.

Applications

Tested applications:	**ELISA, WB, IP, IF**
Species specificity:	**Human,Mouse,Rat; other species not tested.**
Caculated gephyrin MW:	**769aa,83 kDa**
Observed gephyrin MW:	**93 kDa**
Positive WB detected in	**Human brain tissue, Jurkat cells**
Positive IP detected in	**HEK-293 cells**
Positive IF detected in	**HEK-293 cells**
Recommended dilution:	**WB: 1:500-1:5000**
	IP: 1:200-1:2000
	IF: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	**Ag3370**
GenBank accession number:	**BC030016**
Gene ID (NCBI):	**10243**
Full name:	**Gephyrin**

Product information

Purification method:	**Antigen affinity purification**
Storage:	**PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.**