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# Datasheet for ABIN952493 anti-Gephyrin antibody (Middle Region)

3 Images



### Overview

Quantity:	0.4 mL
Target:	Gephyrin (GPHN)
Binding Specificity:	AA 444-474, Middle Region
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

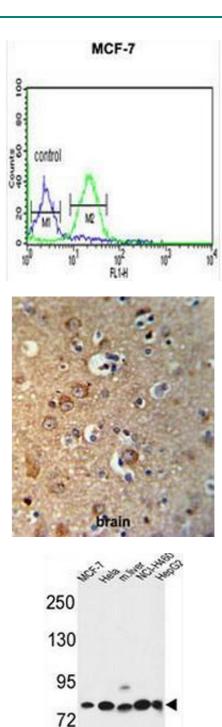
## **Product Details**

Immunogen:	KLH conjugated synthetic peptide between 444~474 amino acids from the Central region of human GPHN
Isotype:	Ig Fraction
Specificity:	This antibody reacts to GPHN.
Cross-Reactivity (Details):	Species reactivity (tested):Human and Mouse.
Purification:	Affinity chromatography on Protein A
Target Details	
Target:	Gephyrin (GPHN)
Alternative Name:	Gephyrin (GPHN Products)

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Target Details	
Background:	GPHN encodes a neuronal assembly protein that anchors inhibitory neurotransmitter receptors to the postsynaptic cytoskeleton via high affinity binding to a receptor subunit domain and tubulin dimers. In nonneuronal tissues, the encoded protein is also required for molybdenum cofactor biosynthesis. Mutations in this gene may be associated with the neurological condition hyperplexia and also lead to molybdenum cofactor deficiency.Synonyms: GPH, GPHN, KIAA1385
Molecular Weight:	79748 Da
Gene ID:	10243
NCBI Accession:	NP_001019389
Pathways:	Synaptic Membrane, Skeletal Muscle Fiber Development
Application Details	
Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	0.25 mg/mL
Buffer:	PBS, 0.09 % (W/V) sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.

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#### **Flow Cytometry**

**Image 1.** GPHN Antibody (Center) flow cytometric analysis of MCF-7 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

#### Immunohistochemistry (Paraffin-embedded Sections)

**Image 2.** GPHN Antibody (Center) IHC analysis in formalin fixed and paraffin embedded brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the GPHN Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

#### Western Blotting

**Image 3.** GPHN Antibody (Center) western blot analysis in MCF-7,Hela,NCI-H460,HepG2 cell line and mouse liver tissue lysates (35µg/lane).This demonstrates the GPHN antibody detected the GPHN protein (arrow).

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