

For Research Use Only

# GPHN Monoclonal antibody, PBS Only



Catalog Number: 67995-1-PBS

## Basic Information

<b>Catalog Number:</b> 67995-1-PBS	<b>GenBank Accession Number:</b> BC030016	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 1 mg/ml	<b>GeneID (NCBI):</b> 10243	<b>CloneNo.:</b> 1D7C4
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q9NQX3	
<b>Isotype:</b> IgG1	<b>Full Name:</b> gephyrin	
<b>Immunogen Catalog Number:</b> AG23708	<b>Calculated MW:</b> 769 aa, 83 kDa	
	<b>Observed MW:</b> 93 kDa	

## Applications

**Tested Applications:**  
WB, Indirect ELISA

**Species Specificity:**  
Human

## Background Information

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 predicted of 83 kDa, which may be due to the modifications on various phosphorylation sites.

## Storage

**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

For technical support and original validation data for this product please contact:

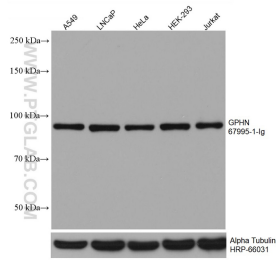
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67995-1-Ig (GPHN antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Alpha Tubulin Monoclonal antibody (HRP-66031) as loading control. This data was developed using the same antibody clone with 67995-1-PBS in a different storage buffer formulation.