

Datasheet for ABIN968050
anti-Gephyrin antibody (AA 569-726)[2 Images](#)[3 Publications](#)[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	Gephyrin (GPHN)
Binding Specificity:	AA 569-726
Reactivity:	Human, Mouse, Rat, Chicken
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Gephyrin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	Rat Gephyrin aa. 569-726
Clone:	45-Gephyrin
Isotype:	IgG1
Cross-Reactivity:	Chicken, Human, Mouse (Murine)
Characteristics:	<ol style="list-style-type: none">1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.2. Please refer to us for technical protocols.3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

Product Details

Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
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Target Details

Target:	Gephyrin (GPHN)
Alternative Name:	Gephyrin (GPHN Products)
Background:	<p>The sub-membraneous region of the postsynaptic neuron is an intricate network of cytoskeletal elements generally known as the postsynaptic density. It is thought that this elaborate cytoskeletal region is critical for receptor targeting, clustering, and efficient signal input.</p> <p>Gephyrin, a 93 kDa protein, was identified as a result of its ability to bind to polymerized tubulin (microtubules). Although expressed in all tissues, gephyrin mRNA is found most abundantly in brain. Alternative splicing produces at least five different mRNAs. Gephyrin colocalizes and interacts with the glycine receptor at the postsynaptic density. It is possible that Gephyrin acts as an anchor between the glycine receptor and microtubules. This antibody is routinely tested by western blot analysis.</p>
Molecular Weight:	93 kDa
Pathways:	Synaptic Membrane , Skeletal Muscle Fiber Development

Application Details

Comment:	Related Products: ABIN968546, ABIN967389
Restrictions:	For Research Use only

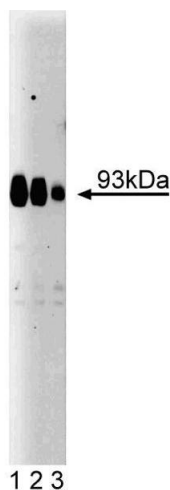
Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % 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.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20° C.

Publications

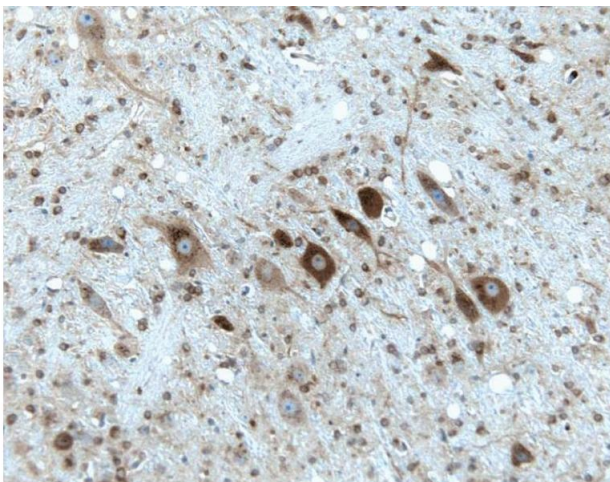
- Product cited in: Feng, Tintrup, Kirsch, Nichol, Kuhse, Betz, Sanes: "Dual requirement for gephyrin in glycine receptor clustering and molybdoenzyme activity." in: **Science (New York, N.Y.)**, Vol. 282, Issue 5392, pp. 1321-4, (1998) ([PubMed](#)).
- Meyer, Kirsch, Betz, Langosch: "Identification of a gephyrin binding motif on the glycine receptor beta subunit." in: **Neuron**, Vol. 15, Issue 3, pp. 563-72, (1995) ([PubMed](#)).
- Prior, Schmitt, Grenningloh, Pribilla, Multhaup, Beyreuther, Maulet, Werner, Langosch, Kirsch: "Primary structure and alternative splice variants of gephyrin, a putative glycine receptor-tubulin linker protein." in: **Neuron**, Vol. 8, Issue 6, pp. 1161-70, (1992) ([PubMed](#)).

Images



Western Blotting

Image 1. Western blot analysis of Gephyrin on rat brain lysate. Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of anti-Gephyrin.



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Rat cerebellum, formalin-fixed paraffin embedded tissue, with citrate pre-treatment, 20X.