

Datasheet for ABIN968003  
**anti-DLG4 antibody (AA 353-504)**



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## Overview

Quantity:	150 µg
Target:	DLG4
Binding Specificity:	AA 353-504
Reactivity:	Rat, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This DLG4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP)

## Product Details

Immunogen:	Rat PSD-95 aa. 353-504
Clone:	16-PSD
Isotype:	IgG1
Cross-Reactivity:	Mouse (Murine)
Characteristics:	<ol style="list-style-type: none"> <li>1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.</li> <li>2. Please refer to us for technical protocols.</li> <li>3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.</li> <li>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.</li> </ol>

## Product Details

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

Target:	DLG4
Alternative Name:	PSD-95 ( <a href="#">DLG4 Products</a> )
Background:	<p>PostSynaptic Density (PSD) refers to a dense region of submembranous cytoskeleton found most prominently in postsynaptic membranes of the CNS. Possible functions for the PSD include regulation and aggregation of receptors, structural stabilization of the synaptic junction, and transduction of signals from membrane receptors. Some of the proteins associated with the PSD are fodrin, tubulin, calmodulin, CaM Kinase II, PSD-95, and PSD-93. PSD-95 (SAP90) is a protein that interacts with the NMDA receptor NMDAR2B, neuronal NOS (nNOS or bNOS), and other proteins. PSD-95 contains one SH3 domain in its carboxy-terminal domain, as well as three conserved repeat regions called GLGF or PDZ domains. nNOS, which is concentrated in synaptic junctions, also contains a PZD domain. PSD-95 and nNOS interact via their respective PZD domains, which may mediate the binding of nNOS to skeletal muscle syntrophin. This antibody is routinely tested by western blot analysis.</p> <p>Synonyms: PostSynaptic Density-95, SAP90</p>
Molecular Weight:	95 kDa
Pathways:	<a href="#">Regulation of Muscle Cell Differentiation</a> , <a href="#">Synaptic Membrane</a> , <a href="#">Skeletal Muscle Fiber Development</a> , <a href="#">Asymmetric Protein Localization</a> , <a href="#">Regulation of long-term Neuronal Synaptic Plasticity</a>

## Application Details

Comment:	Related Products: ABIN968545, 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

## Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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Storage:	-20 °C
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Storage Comment:	Store undiluted at -20° C.
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## Publications

Product cited in: Fagiolini, Katagiri, Miyamoto, Mori, Grant, Mishina, Hensch: "Separable features of visual cortical plasticity revealed by N-methyl-D-aspartate receptor 2A signaling." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 100, Issue 5, pp. 2854-9, (2003) ([PubMed](#)).

Fallon, Moreau, Croft, Labib, Gu, Fon: "Parkin and CASK/LIN-2 associate via a PDZ-mediated interaction and are co-localized in lipid rafts and postsynaptic densities in brain." in: **The Journal of biological chemistry**, Vol. 277, Issue 1, pp. 486-91, (2002) ([PubMed](#)).

Mehta, Wu, Garner, Marshall: "Molecular mechanisms regulating the differential association of kainate receptor subunits with SAP90/PSD-95 and SAP97." in: **The Journal of biological chemistry**, Vol. 276, Issue 19, pp. 16092-9, (2001) ([PubMed](#)).

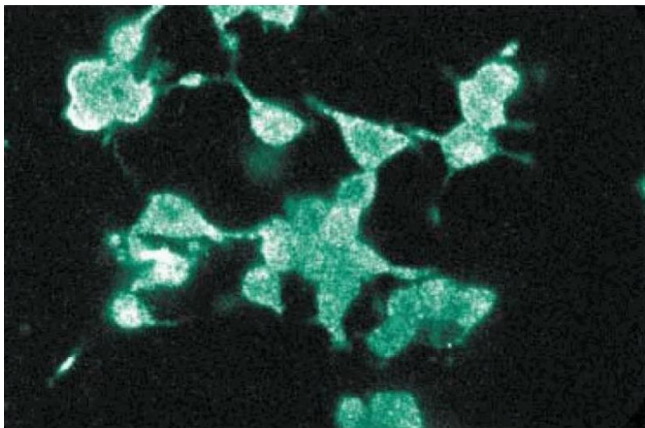
Brenman, Chao, Gee, McGee, Craven, Santillano, Wu, Huang, Xia, Peters, Froehner, Bredt: "Interaction of nitric oxide synthase with the postsynaptic density protein PSD-95 and alpha1-syntrophin mediated by PDZ domains." in: **Cell**, Vol. 84, Issue 5, pp. 757-67, (1996) ([PubMed](#)).

Cho, Hunt, Kennedy: "The rat brain postsynaptic density fraction contains a homolog of the Drosophila discs-large tumor suppressor protein." in: **Neuron**, Vol. 9, Issue 5, pp. 929-42, (1992) ([PubMed](#)).



### Western Blotting

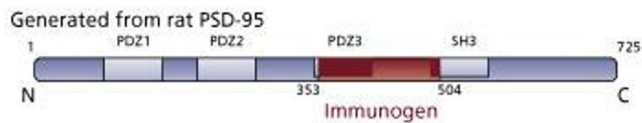
**Image 1.** Western blot analysis of PSD-95 on a rat cerebrum lysate. Lane1: 1:250, lane 2: 1: 500, lane 3: 1:1000 dilution of the mouse anti- PSD-95 antibody.



### Immunofluorescence

**Image 2.** Immunofluorescence staining of PC12 cells (Rat neuroblastoma, ATCC CRL-1721).

### Image 3.



Please check the [product details page](#) for more images. Overall 4 images are available for ABIN968003.