

Datasheet for ABIN725930  
**anti-DLG4 antibody (AA 468-560)**



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## Overview

|                      |                                                                                                                                                                                                                                                                                                          |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Quantity:            | 100 µL                                                                                                                                                                                                                                                                                                   |
| Target:              | DLG4                                                                                                                                                                                                                                                                                                     |
| Binding Specificity: | AA 468-560                                                                                                                                                                                                                                                                                               |
| Reactivity:          | Rat, Mouse, Human, Monkey                                                                                                                                                                                                                                                                                |
| Host:                | Rabbit                                                                                                                                                                                                                                                                                                   |
| Clonality:           | Polyclonal                                                                                                                                                                                                                                                                                               |
| Conjugate:           | This DLG4 antibody is un-conjugated                                                                                                                                                                                                                                                                      |
| Application:         | Western Blotting (WB), ELISA, Immunocytochemistry (ICC), Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)) |

## Product Details

|                       |                                                           |
|-----------------------|-----------------------------------------------------------|
| Immunogen:            | KLH conjugated synthetic peptide derived from human PSD95 |
| Isotype:              | IgG                                                       |
| Cross-Reactivity:     | Human, Monkey, Mouse, Rat                                 |
| Predicted Reactivity: | Dog,Cow,Pig,Rabbit                                        |
| Purification:         | Purified by Protein A.                                    |

## Target Details

|         |      |
|---------|------|
| Target: | DLG4 |
|---------|------|

## Target Details

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Alternative Name: | PSD95 ( <a href="#">DLG4 Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Background:       | <p>Synonyms: PSD95, SAP9, SAP-9, Disks large homolog 4, Postsynaptic density protein 95, PSD-95, Synapse-associated protein 9, DLG4</p> <p>Background: Interacts with the cytoplasmic tail of NMDA receptor subunits and shaker-type potassium channels. Required for synaptic plasticity associated with NMDA receptor signaling. Overexpression or depletion of DLG4 changes the ratio of excitatory to inhibitory synapses in hippocampal neurons. May reduce the amplitude of ASIC3 acid-evoked currents by retaining the channel intracellularly. May regulate the intracellular trafficking of ADR1B (By similarity).</p> |
| Gene ID:          | 1742                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| UniProt:          | <a href="#">P78352</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 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

|                    |                                                                                                                                                                          |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application Notes: | WB 1:300-5000<br>ELISA 1:500-1000<br>FCM 1:20-100<br>IHC-P 1:200-400<br>IHC-F 1:100-500<br>IF(IHC-P) 1:50-200<br>IF(IHC-F) 1:50-200<br>IF(ICC) 1:50-200<br>ICC 1:100-500 |
| Restrictions:      | For Research Use only                                                                                                                                                    |

## Handling

|                    |                                                                                     |
|--------------------|-------------------------------------------------------------------------------------|
| Format:            | Liquid                                                                              |
| Concentration:     | 1 µg/µL                                                                             |
| Buffer:            | 0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.               |
| Preservative:      | ProClin                                                                             |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be |

## Handling

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handled by trained staff only.

Storage: 4 °C,-20 °C

Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date: 12 months

## Publications

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Product cited in: Ku, Li, Gao, Zhang, Yan, Ji, Li, Sang: "NF-κB-regulated microRNA-574-5p underlies synaptic and cognitive impairment in response to atmospheric PM2.5 aspiration." in: **Particle and fibre toxicology**, Vol. 14, Issue 1, pp. 34, (2018) ([PubMed](#)).

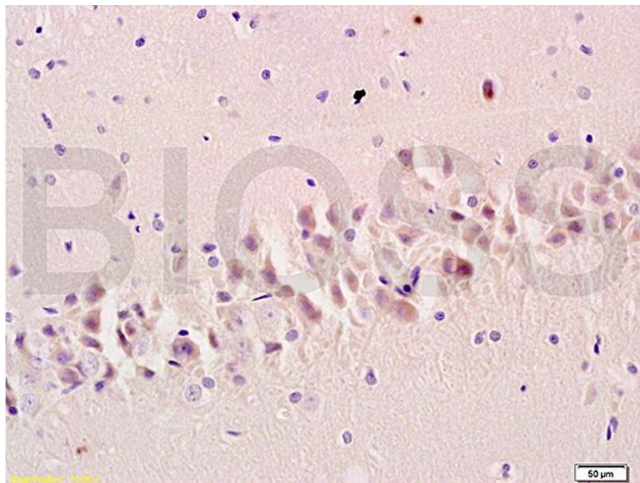
Luo, Guo, Fan, Lu, Chen, Wang, Shao, Wu, Xu, Lü: "Niche astrocytes promote the survival, proliferation and neuronal differentiation of co-transplanted neural stem cells following ischemic stroke in rats." in: **Experimental and therapeutic medicine**, Vol. 13, Issue 2, pp. 645-650, (2017) ([PubMed](#)).

Li, Wei, Bai, Li, Huang, Lin, Hou, Deng, Zhou, Zhang, Chen: "MicroRNA-574 is involved in cognitive impairment in 5-month-old APP/PS1 mice through regulation of neuritin." in: **Brain research**, Vol. 1627, pp. 177-88, (2015) ([PubMed](#)).

Zhao, Li, Wei, Savage, Zhou, Ma: "Ketamine administered to pregnant rats in the second trimester causes long-lasting behavioral disorders in offspring." in: **Neurobiology of disease**, Vol. 68, pp. 145-55, (2014) ([PubMed](#)).

Wang, Niu, Zhu, Han, Luo, Zhou, Wang: "Changes in memory and synaptic plasticity induced in male rats after maternal exposure to bisphenol A." in: **Toxicology**, Vol. 322, pp. 51-60, (2014) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



#### Immunohistochemistry

**Image 1.** Formalin-fixed and paraffin embedded: rat brain tissue labeled with Anti-PSD-95 Polyclonal Antibody (ABIN725930), Unconjugated at 1:200 followed by conjugation to the secondary antibody and DAB staining