

## PSD95 (ANT0055R) Rabbit mAb

CatalogNo: ANT8292 **Recombinant** 

Formulation: PBS,50%glycerol,0.05%Proclin 300,0.05%BSA  
Quantity : 100 ug/vial

### Host Species

- Rabbit
- Human,Mouse,Rat,

### Reactivity

- WB,IHC,IF,IP,ELISA

### Applications

### MW

- 81kD (Calculated)
- 95kD (Observed)

### Isotype

- IgG,Kappa

## Recommended Dilution Ratios

IHC 1:500-1:2000

WB 1:2000-1:10000

IF 1:200-1:1000

ELISA 1:5000-1:20000

IP 1:50-1:200

## Storage

**Storage\*** -15°C to -25°C/1 year(Do not lower than -25°C)

## Basic Information

**Clonality** Monoclonal

**Clone Number** ANT0055R

## Immunogen Information Specificity

Endogenous

## Target Information

Gene name           DLG4

Protein Name       Disks large homolog 4

Organism	Gene ID	UniProt ID
Human	<a href="#">1742;</a>	<a href="#">P78352;</a>
Mouse	<a href="#">13385;</a>	<a href="#">Q62108;</a>
Rat	<a href="#">29495;</a>	<a href="#">P31016;</a>

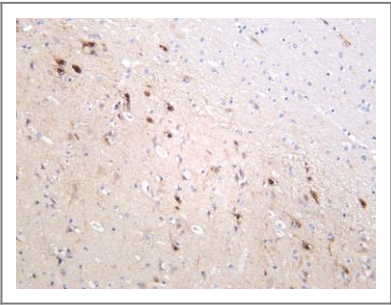
Cellular                   Cytoplasm, Membrane

Localization

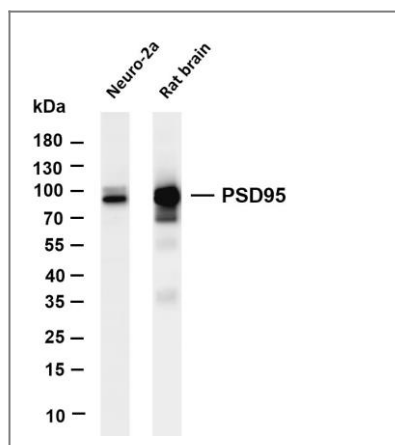
Tissue specificity Brain.

Function               Domain:The L27 domain near the N-terminus of isoform 2 is required for HGS/HRSdependent targeting to post-synaptic density.,Domain:The PDZ domain 3 mediates interaction with ADR1B.,Function: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 ACCN3 acid-evoked currents by retaining the channel intracellularly. May regulate the intracellular trafficking of ADR1B.,ANTM:Palmitoylation of isoform 1 is required for targeting to postsynaptic density.,similarity:Belongs to the MAGUK family.,similarity:Contains 1 guanylate kinase-like domain.,similarity:Contains 1 SH3 domain.,similarity:Contains 2 PDZ (DHR) domains.,similarity:Contains 3 PDZ (DHR) domains.,subcellular location:High levels in postsynaptic density of neurons in the forebrain. Also in presynaptic region of inhibitory synapses formed by cerebellar basket cells on axon hillocks of Purkinje cells.,subunit:Interacts with ANKS1B and PRR7 (By similarity). Interacts through its first two PDZ domains with GRIN2A, GRIN2B, GRIN2C, GRIN2D, ACCN3, certain splice forms of GRIN1, KCND2, CXADR and SYNGAP1. Interacts through its second PDZ domain with the PDZ domain of NOS1 or the C-terminus of CAPON. May interact with HTR2A. Interacts through its guanylate kinase-like domain with DLGAP1/GKAP, DLGAP2, DLGAP3, DLGAP4, MAP1A and BEGAIN. Interacts through its third PDZ domain with CRIPT (By similarity). Interacts through its first two PDZ domains with KCNA1, KCNA2, KCNA3, KCNA4 and ERBB4. Interacts through its first PDZ domain with GRIK2, KCNA4 and CRIPT. Interacts through its third PDZ domain with NLGN1, and probably with NLGN2 and NLGN3. Interacts through its guanylate kinaselike domain with KIF13B. Isoform 2 interacts through an L27 domain with HGS/HRS and the first L27 domain of CASK. Interacts with LRFN1.,tissue specificity:Brain.,

## Validation Data



Human brain was stained with anti-PSD95 (ANT0055R) rabbit antibody



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-PSD95 (ANT0055R) antibody. The HRPconjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: Neuro-2a Lane 2: Rat brain  
Predicted band size: 81kDa  
Observed band size: 95kDa

For Research use only, not for diagnostics and clinical use  
Contact Antagene Inc Tel 1-866-964-2589 Email: [info@antageneinc.com](mailto:info@antageneinc.com)