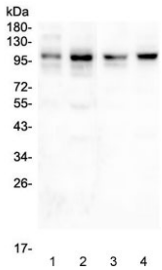
PSD95 Antibody / DLG4 (R32167)

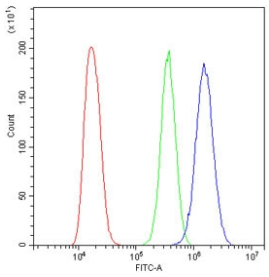
Catalog No.	Formulation	Size
R32167	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	P78352
Localization	Cytoplasmic
Applications	Western blot: 0.1-0.5ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This PSD95 antibody is available for research use only.



Western blot testing of 1) rat brain, 2) mouse brain, 3) human SHG-44 and 4) human U-87 MG lysate with PSD95 antibody. Predicted molecular weight ~80 kDa but routinely observed at 90~95 kDa.



Flow cytometry testing of human A431 cells with PSD95 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= PSD95 antibody.

Description

DLG4 (Discs large homolog 4), also known as PSD95 or SAP-90, is a protein that in humans is encoded by the DLG4 gene. It is a member of the membrane-associated guanylate kinase (MAGUK) family. This gene is mapped to 17p13.1. DLG4 can heteromultimerize with another MAGUK protein, DLG2, and is recruited into NMDA receptor and potassium channel clusters. These two MAGUK proteins may interact at postsynaptic sites to form a multimeric scaffold for the clustering of receptors, ion channels, and associated signaling proteins. Overexpression of DLG4 in hippocampal neurons could drive maturation of glutamatergic synapses. DLG4 can orchestrate synaptic development and it has a role in synapse stabilization and plasticity. Ubiquitination of DLG4 through an MDM2-mediated pathway can regulate AMPA receptor surface expression during synaptic plasticity.

Application Notes

Optimal dilution of the PSD95 antibody should be determined by the researcher.

Immunogen

Amino acids 581-724 of human PSD95 were used as the immunogen for the PSD95 antibody.

Storage

After reconstitution, the PSD95 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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