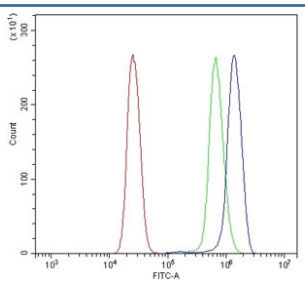
DLG4 Antibody / PSD95 (RQ6419)

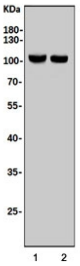
Catalog No.	Formulation	Size
RQ6419	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P78352
Localization	Cytoplasmic
Applications	Western Blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This DLG4 antibody is available for research use only.



Flow cytometry testing of human U937 cells with DLG4 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= DLG4 antibody.



Western blot testing of 1) rat brain and 2) mouse brain tissue lysate with DLG4 antibody. Predicted molecular weight ~80 kDa but routinely observed at 90~95 kDa.

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 DLG4 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids D18-L711) was used as the immunogen for the DLG4 antibody.

Storage

After reconstitution, the DLG4 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com
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