



## Rabbit Anti-DLGAP1 antibody

SL12138R

**Product Name** DLGAP1**Chinese Name** PSD95Binding protein1 抗体**Alias** PSD95 binding protein 1; DAP 1 ALPHA; DAP 1; DAP 1 BETA; DAP-1; DAP-1-ALPHA; DAP-1-BETA; DAP1; Discs large (Drosophila) homolog associated protein 1; Discs large homolog associated protein 1; Disks large associated protein 1; Disks large associated protein 1, alpha isoform, included; Disks large associated protein 1, beta isoform, included; Disks large-associated protein 1; DLGAP 1; Dlgap1; DLGP1\_HUMAN; GKAP; GKAP/SAPAP; GKPA/SAPAP; Guanylate kinase associated protein; Guanylate kinase-associated protein; hGKAP; KIAA4162; MGC88156; mKIAA4162; PSD 95/SAP90 binding protein 1; PSD-95/SAP90-binding protein 1; SAP90/PSD 95 associated protein 1; SAP90/PSD-95-associated protein 1; SAPAP 1; SAPAP1.**Research Area** Cell biology Neurobiology Signal transduction Channel protein The cell membrane 受体**Immunogen Species** Rabbit**Clonality** Polyclonal**React Species** (predicted: Human, Mouse, Rat, Dog, Pig, Cow, Horse, Rabbit, Sheep, )  
IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000  
(Paraffin sections need antigen repair)**Applications** not yet tested in other applications.  
optimal dilutions/concentrations should be determined by the end user.**Theoretical molecular weight** 109kDa**Cellular localization** The cell membrane**Form** Liquid**Concentration** 1mg/ml**immunogen** KLH conjugated synthetic peptide derived from human SAPAP1/DLGAP1: 241-360/977**Lsotype** IgG**Purification** affinity purified by Protein A**Buffer** 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.



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**Solution**

**Storage**

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

**Attention**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**PubMed**

[PubMed](#)

Members of the postsynaptic density-95 (PSD-95)/SAP90 family of membrane-associated guanylate kinase (MAGUK) proteins function as multimodular scaffolds that organize protein-signaling complexes at neuronal synapses. PSD-95/SAP90 binds guanylate kinase-associated protein (GKAP), also designated GK domain-binding protein, DAP-1-a, DAP-1-b, PSD-95 binding protein, PSD-95/SAP90 associated protein, or SAPAP, through the guanylate kinase domain. GKAP is expressed widely in neurons of the cortex and hippocampus and in the Purkinje and granule cells of the cerebellum. GKAP is localized specifically in the PSD of glutamatergic synapses, consistent with its direct interaction with PSD-95 family proteins.

**Function:**

Part of the postsynaptic scaffold in neuronal cells.

**Subunit:**

Interacts with guanylate kinase-like domain of DLG1, DLG2, DLG3, DLG4 and AIP1. Interacts with the PDZ domain of SHANK1, SHANK2 and SHANK3. Found in a complex with DLG4 and SHANK1, SHANK2 or SHANK3. Found in a complex with DLG4 and BEGAIN. Interacts with DYL2 and LRFN1 (By similarity).

**Product  
Detail**

**Subcellular Location:**

Cell membrane. Cell junction > synapse > postsynaptic cell membrane > postsynaptic density. Cell junction > synapse. Found in postsynaptic density of neuronal cells.

**Tissue Specificity:**

Expressed in brain.

**Similarity:**

Belongs to the SAPAP family.

**SWISS:**

O14490

**Gene ID:**

9229

**Database links:**



[Entrez Gene: 9229](#) Human

[Entrez Gene: 224997](#) Mouse

[Entrez Gene: 65040](#) Rat

[Omim: 605445](#) Human

[SwissProt: O14490](#) Human

[SwissProt: Q9D415](#) Mouse

[SwissProt: P97836](#) Rat

[Unigene: 654793](#) Human

[Unigene: 311840](#) Mouse

[Unigene: 367369](#) Mouse

[Unigene: 90059](#) Rat