

## Rabbit Anti-DLGAP2 antibody

SL12139R

<b>Product Name</b>	DLGAP2
<b>Chinese Name</b>	PSD95Binding protein2 抗体
<b>Alias</b>	DLGAP2; SAPAP2; DAP-2; DAP2; Discs large (Drosophila) homolog associated protein 2; Discs large homolog associated protein 2; Disks large-associated protein 2; Dlgap2; DLGP2_HUMAN; PSD-95/SAP90-binding protein 2; SAP90/PSD-95-associated protein 2; SAPAP2; hide.
<b>Research Area</b>	Neurobiology The cell membrane 受体
<b>Immunogen Species</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>React Species</b>	Human Mouse Rat
<b>Applications</b>	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Theoretical molecular weight</b>	118kDa
<b>Cellular localization</b>	The cell membrane
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>immunogen</b>	KLH conjugated synthetic peptide derived from human SAPAP2/DLGAP2: 251-360/1054
<b>Lsotype</b>	IgG
<b>Purification</b>	affinity purified by Protein A
<b>Buffer Solution</b>	Human,Mouse,Rat1M TBS(pH7.4) with 1% BSA, Human,Mouse,Rat3% Proclin300 and 50% Glycerol.
<b>Storage</b>	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
<b>Attention</b>	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

## PubMed

### [PubMed](#)

A guanylate kinase is a phosphotransferase that produces ADP and GDP from the substrates ATP and GMP. SAPAP2, also known as DAP-2 (Disks large-associated protein 2) and PSD-95/SAP90-binding protein 2, is a 1054 amino acid protein that localizes to the postsynaptic membrane of neuronal cells of the brain and kidney. SAPAP2 likely acts as a signaling molecule which interacts with the human genes DLG1 and DLG4/PSD-95. The gene encoding SAPAP2, DLGAP2, maps to human chromosome 8. Consisting of nearly 146 million base pairs, chromosome 8 encodes over 800 genes and is associated with a variety of diseases and malignancies. Schizophrenia, bipolar disorder, Trisomy 8, Pfeiffer syndrome, congenital hypothyroidism, Waardenburg syndrome and some leukemias and lymphomas are thought to occur as a result of defects in specific genes that maps to chromosome 8.

### **Function:**

May play a role in the molecular organization of synapses and neuronal cell signaling. Could be an adapter protein linking ion channel to the subsynaptic cytoskeleton. May induce enrichment of PSD-95/SAP90 at the plasma membrane.

### **Subunit:**

Interacts with DLG1 and DLG4/PSD-95.

## Product Detail

### **Subcellular Location:**

Cell membrane. Cell junction, synapse, postsynaptic cell membrane, postsynaptic density. Cell junction, synapse. Postsynaptic density of neuronal cells.

### **Tissue Specificity:**

Expressed in brain and kidney.

### **Similarity:**

Belongs to the SAPAP family.

### **SWISS:**

Q9P1A6

### **Gene ID:**

9228

### **Database links:**

[Entrez Gene: 9228](#) Human

[Entrez Gene: 244310](#) Mouse

[Entrez Gene: 116681](#) Rat

[Omim: 605438](#) Human

[SwissProt: Q9P1A6](#) Human

[SwissProt: Q8BJ42](#) Mouse

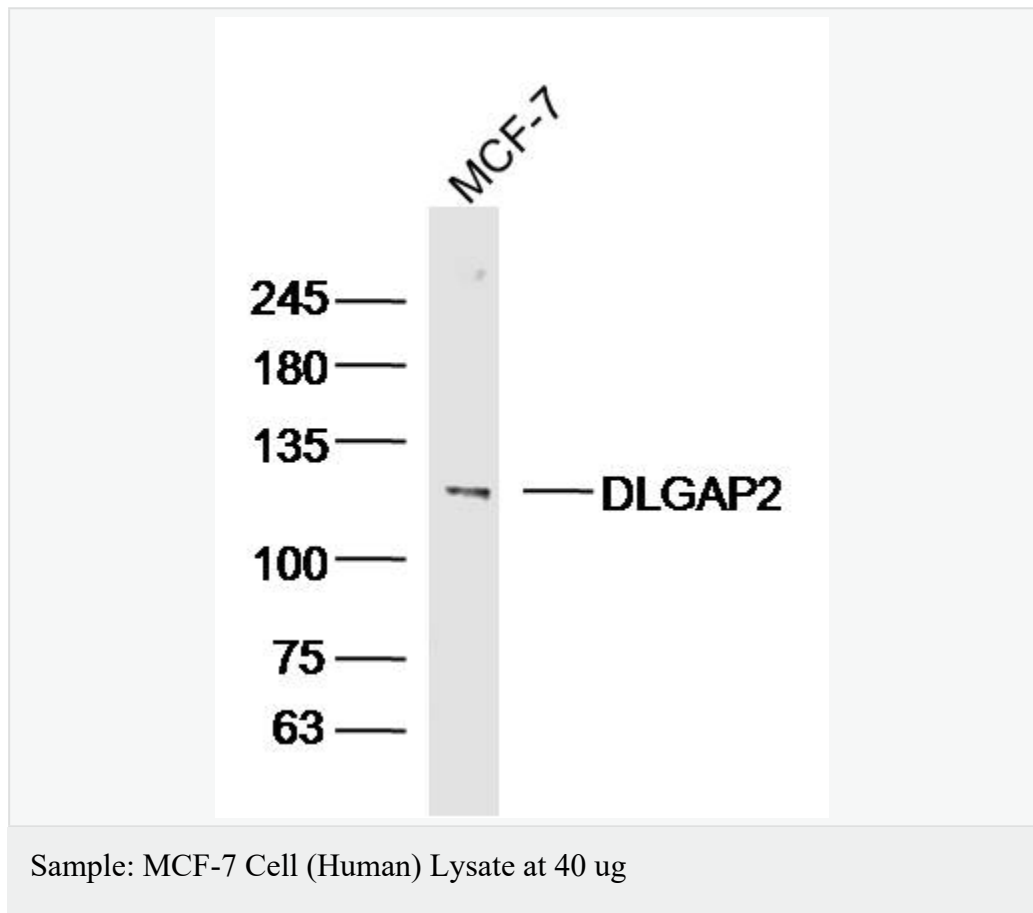
[SwissProt: P97837](#) Rat

[Unigene: 113287](#) Human

[Unigene: 404697](#) Mouse

[Unigene: 10705](#) Rat

Product  
Picture

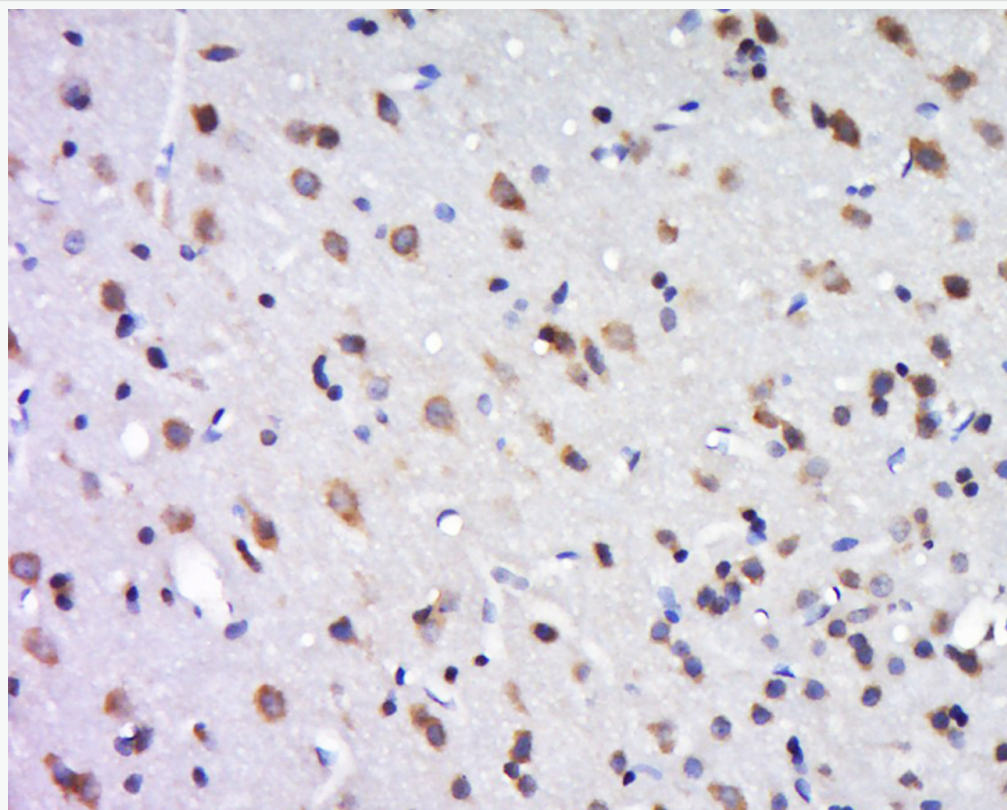


Primary: Anti-DLGAP2 (SL12139R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 118 kD

Observed band size: 118 kD



Tissue/cell: Rat brain tissue ; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( Human,Mouse,Rat1M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;



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Incubation: Anti-DLGAP2 Polyclonal Antibody, Unconjugated(SL12139R)

1:500, overnight at 4°C, followed by conjugation to the secondary

antibody(SP-0023) and DAB(C-0010) staining