



## 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>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=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>Molecular weight:</b>	118kDa
<b>Cellular localization:</b>	The cell membrane
<b>Form:</b>	Lyophilized or 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>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	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.

**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

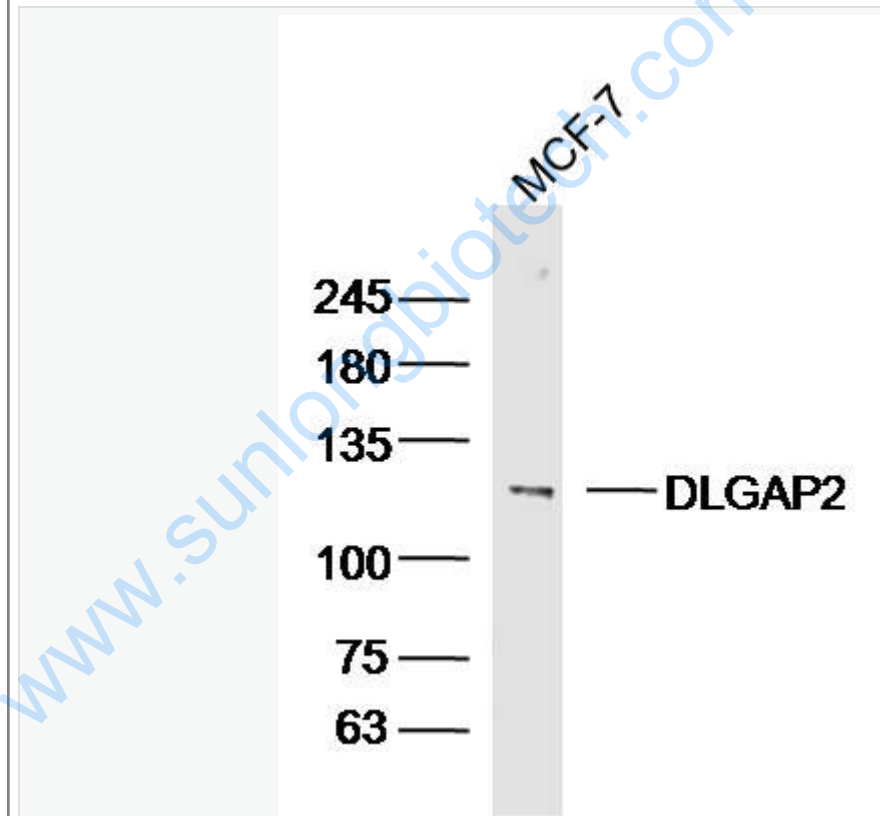
[Unigene: 404697](#) Mouse

[Unigene: 10705](#) Rat

**Important Note:**

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

Picture:



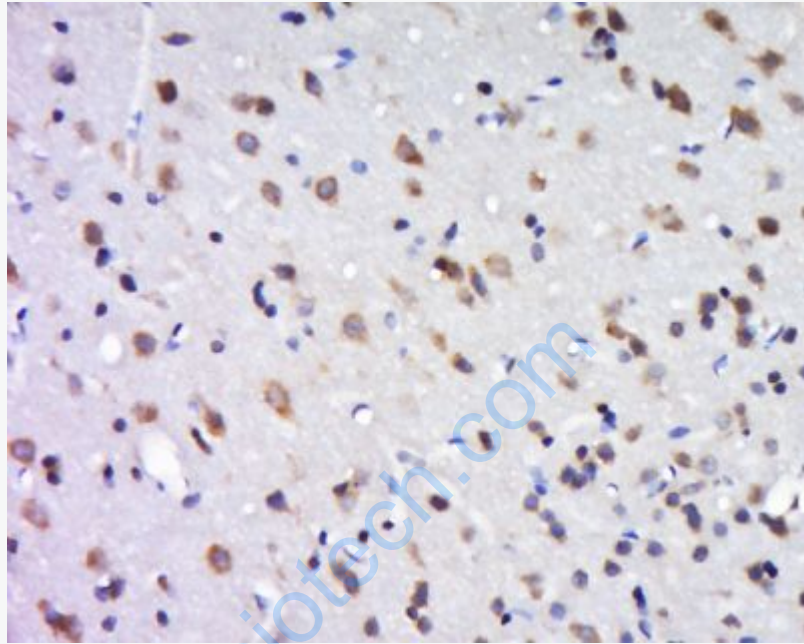
Sample: MCF-7 Cell (Human) Lysate at 40 ug

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 ( 0.01M, 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;  
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