Best Tools for immunology Research

PSD95 (Phospho Ser295) rabbit pAb

Catalog No :	YP1453
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA;IHC
Target :	PSD95
Fields :	>>Hippo signaling pathway;>>Glutamatergic synapse;>>Huntington disease;>>Pathways of neurodegeneration - multiple diseases;>>Cocaine addiction
Gene Name :	DLG4 PSD95
Protein Name :	PSD95 (Ser295)
Human Gene Id :	1742
Human Swiss Prot No :	P78352
Mouse Gene Id :	13385
Mouse Swiss Prot No :	Q62108
Rat Gene Id :	29495
Rat Swiss Prot No :	P31016
Immunogen :	Synthesized phosho peptide around human PSD95 (Ser295)
Specificity :	This antibody detects endogenous levels of Human Mouse Rat PSD95 (phospho-Ser295)
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000;IHC 1:50-300; ELISA 2000-20000

Purification : The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 95kD

Cell Pathway : Huntington's disease;

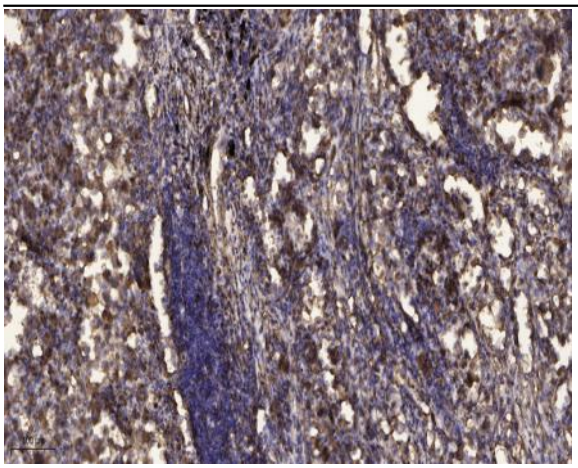
Background : This gene encodes a member of the membrane-associated guanylate kinase (MAGUK) family. It heteromultimerizes with another MAGUK protein, DLG2, and is recruited into NMDA receptor and potassium channel clusters. These two MAGUK proteins may interact at postsynaptic sites to form a multimeric scaffold for the clustering of receptors, ion channels, and associated signaling proteins. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008],

Function : domain:The L27 domain near the N-terminus of isoform 2 is required for HGS/HRS-dependent targeting to post-synaptic density.,domain:The PDZ domain 3 mediates interaction with ADR1B.,function:Interacts with the cytoplasmic tail of NMDA receptor subunits and shaker-type potassium channels. Required for synaptic plasticity associated with NMDA receptor signaling. Overexpression or depletion of DLG4 changes the ratio of excitatory to inhibitory synapses in hippocampal neurons. May reduce the amplitude of ACCN3 acid-evoked currents by retaining the channel intracellularly. May regulate the intracellular trafficking of ADR1B.,PTM:Palmitoylation of isoform 1 is required for targeting to postsynaptic density.,similarity:Belongs to the MAGUK family.,similarity:Contains 1 guanylate kinase-like domain.,similarity:Contains 1 SH3 domain.,similarity:Contains 2 PDZ (DHR) domains.,similarity:Contains 3

Subcellular Location : Cell membrane ; Lipid-anchor ; Cytoplasmic side . Cell junction, synapse, postsynaptic density . Cell junction, synapse . Cytoplasm . Cell projection, axon . Cell projection, dendritic spine . Cell projection, dendrite . Cell junction, synapse, presynapse . High levels in postsynaptic density of neurons in the forebrain. Also in presynaptic region of inhibitory synapses formed by cerebellar basket cells on axon hillocks of Purkinje cells. Suppression of neuronal activity induces synaptic accumulation and clustering of DLG4. .

Expression : Brain.

Products Images



Immunohistochemical analysis of paraffin-embedded human Squamous cell carcinoma of lung. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).