

## DLG4 rabbit pAb

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| <b>Catalog No :</b>          | YT7974   |
| <b>Reactivity :</b>          | Human;Mouse;Rat  |
| <b>Applications :</b>        | WB;ELISA   |
| <b>Target :</b>              | PSD95  |
| <b>Fields :</b>              | >>Hippo signaling pathway;>>Glutamatergic synapse;>>Huntington disease;>>Pathways of neurodegeneration - multiple diseases;>>Cocaine addiction |
| <b>Gene Name :</b>           | DLG4 PSD95   |
| <b>Protein Name :</b>        | DLG4   |
| <b>Human Gene Id :</b>       | 1742   |
| <b>Human Swiss Prot No :</b> | P78352   |
| <b>Mouse Gene Id :</b>       | 13385  |
| <b>Mouse Swiss Prot No :</b> | Q62108   |
| <b>Rat Gene Id :</b>         | 29495  |
| <b>Rat Swiss Prot No :</b>   | P31016   |
| <b>Immunogen :</b>           | Synthesized peptide derived from human DLG4 AA range: 530-610  |
| <b>Specificity :</b>         | This antibody detects endogenous levels of Human,Mouse,Rat DLG4  |
| <b>Formulation :</b>         | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  |
| <b>Source :</b>              | Polyclonal, Rabbit,IgG   |
| <b>Dilution :</b>            | WB 1:1000-2000 ELISA 1:5000-20000  |

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| <b>Purification :</b>         | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.   |
| <b>Concentration :</b>        | 1 mg/ml   |
| <b>Storage Stability :</b>    | -15°C to -25°C/1 year(Do not lower than -25°C)  |
| <b>Molecularweight :</b>      | 80kD  |
| <b>Background :</b>           | 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],  |
| <b>Function :</b>             | 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 |
| <b>Subcellular Location :</b> | 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. .   |
| <b>Expression :</b>           | Brain.  |

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