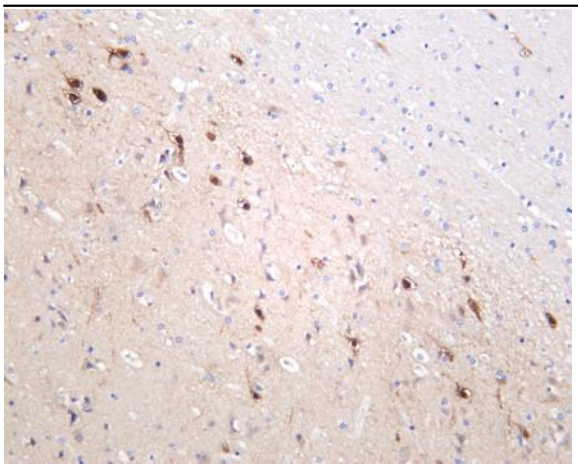
Best Tools for immunology Research

PSD95 (PT0455R) PT® Rabbit mAb

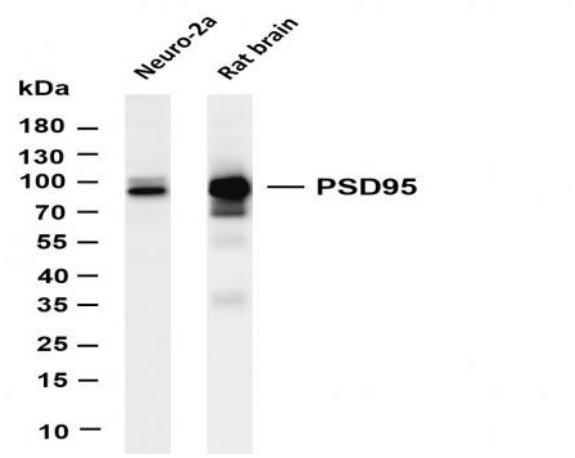
Catalog No :	YM8292
Reactivity :	Human; Mouse; Rat;
Applications :	WB;IHC;IF;IP;ELISA
Target :	PSD95
Fields :	>>Hippo signaling pathway;>>Glutamatergic synapse;>>Huntington disease;>>Pathways of neurodegeneration - multiple diseases;>>Cocaine addiction
Gene Name :	DLG4
Protein Name :	Disks large homolog 4
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
Specificity :	endogenous
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source :	Monoclonal, rabbit, IgG, Kappa
Dilution :	IHC 1:500-1:2000;WB 1:2000-1:10000;IF 1:200-1:1000;ELISA 1:5000-1:20000;IP 1:50-1:200;
Purification :	Protein A

Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	81kD
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 :	Cytoplasm, Membrane
Expression :	Brain.

Products Images



Human brain was stained with anti-PSD95 (PT0455R) rabbit antibody



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-PSD95 (PT0455R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: Neuro-2a Lane 2: Rat brain Predicted band size: 81kDa Observed band size: 95kDa