

Product datasheet for **TA326433**

PSD95 (DLG4) Mouse Monoclonal Antibody [Clone ID: S28-43]

Product data:

Product Type:	Primary Antibodies
Clone Name:	S28-43
Applications:	IF, IHC
Recommended Dilution:	WB: 1:1000
Reactivity:	Mouse, Rat, Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Fusion protein amino acids 77-200 of human PSD95/SAP90
Formulation:	PBS pH7.4, 50% glycerol, 0.09% sodium azide
Concentration:	lot specific
Purification:	Protein G Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	discs large MAGUK scaffold protein 4
Database Link:	NP_001356 Entrez Gene 13385 Mouse Entrez Gene 29495 Rat Entrez Gene 1742 Human P78352



[View online »](#)

Background:

Postsynaptic Density protein 95 (PSD95), also known as Synapse associated protein 90kDa, is a member of the membrane-associated guanylate kinase (MAGUK) family of proteins. PSD95 is a scaffolding protein and is involved in the assembly and function of the postsynaptic density complex . These family members consist of an N-terminal variable segment followed by three amino-terminal PDZ domains, an upstream SH3 domain and an inactive carboxyl-terminal guanylate kinase (GK) domain. The first and second PDZ domain localize NMDA receptors and K⁺ channels to synapses, and the third binds neuroligins which are neuronal cell adhesion molecules that interact with b-neurexins and form intercellular junctions. PSD-95 also binds to neuronal nitric oxide synthase, possibly through interactions between PDZ domains present on both proteins . Thus different PDZ domains of PSD-95 might be specialized for distinct functions . PSD95 participates in synaptic targeting of AMPA receptors through an indirect manner involving Stargazin and related transmembrane AMPA receptor regulatory proteins (TARPs) . The protein is implicated in experience dependent plasticity and plays an indispensable role in learning . Mutations in PSD95 are associated with autism .

Synonyms:

PSD95; SAP-90; SAP90

Note:

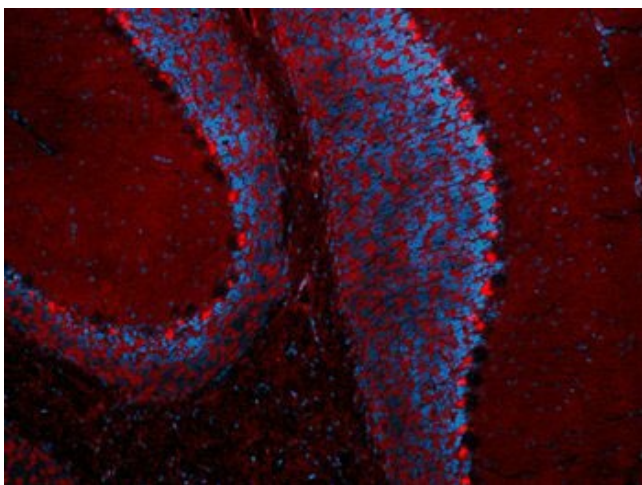
Detects ~95-110kDa.

Protein Families:

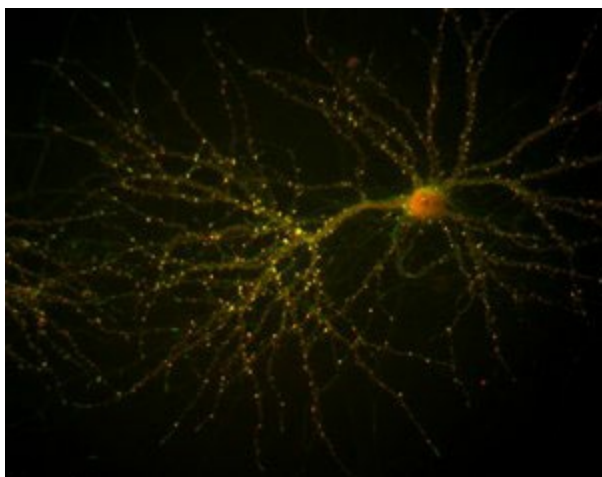
Druggable Genome

Protein Pathways:

Huntington's disease

Product images:


Immunolabelling of PSD95 using a dilution of the antibody



IF of PSD95 in cultures of dissociated hippocampal neurons. Cultures were grown and labeled with antibodies against the indicated proteins. A neuron double stained for PSD95.