

Product datasheet for **TA326527**

Dlg4 Mouse Monoclonal Antibody [Clone ID: 6G6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	6G6
Applications:	WB
Recommended Dilution:	WB: 1:250
Reactivity:	Mouse, Rat, Bovine
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Recombinant rat PSD-95
Formulation:	PBS pH7.4, 50% glycerol
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 homolog 4
Database Link:	NP_062567 Entrez Gene 13385 Mouse Entrez Gene 29495 Rat P31016



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Background:

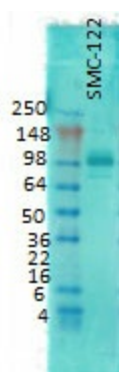
Postsynaptic Density protein 95 (PSD95), also known as Synapse associated protein 90kDa, is a member of the membrane-associated guanylate kinase (MAGUK) family of proteins. PSD95 is a scaffolding protein and is involved in the assembly and function of the postsynaptic density complex. These family members 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 to 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:

FLJ97752; FLJ98574; PSD-95; PSD95; SAP-90; SAP90

Note:

Detects a ~100kDa protein corresponding to the molecular mass of PSD-95 on SDS PAGE immunoblots. An additional protein of >100kDa is also detected. Additional cross-reactive bands are detected at ~75kDa and 50kDa in rat and mouse samples.

Product images:


Western blot analysis of PSD95 in rat membrane using a 1:1000 dilution of the antibody