

Datasheet for ABIN6658153

anti-DLG4 antibody

3 Images



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Overview

Quantity:	100 μg
Target:	DLG4
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This DLG4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Purpose:	PSD95 Antibody
Immunogen:	PSD95 Antibody was produced in mice by repeated immunizations raised against recombinant rat PSD-95.
Clone:	7E3
Isotype:	lgG2a
Cross-Reactivity (Details):	A BLAST analysis was used to suggest cross-reactivity with PSD95 from mouse, rat, and bovine based on 100 % homology with the immunizing sequence.
Purification:	Anti-PSD95 Antibody was purified by Protein G chromatography.
Sterility:	Sterile filtered

Target Details

Target:	DLG4
Alternative Name:	PSD95 (DLG4 Products)
Background:	Synonyms: DLG4, SAP90, Synapse-associated protein 90, Postsynaptic density protein 95,
	Disks large homolog 4
	Background: Postsynaptic Density protein 95 (PSD95), also known as Synapse associated
	protein 90 kDa, 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.
	Gene Name: Dlg4
Gene ID:	13385
NCBI Accession:	NP_031890
UniProt:	P31016
Pathways:	Regulation of Muscle Cell Differentiation, Synaptic Membrane, Skeletal Muscle Fiber
	Development, Asymmetric Protein Localization, Regulation of long-term Neuronal Synaptic
	Plasticity
Application Details	
Application Notes:	Optional[Neutralization_Dilution]: 1.0 μg/mL

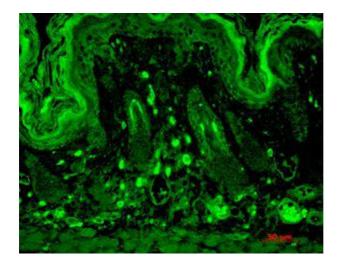
Application Notes:	Optional[Neutralization_Dilution]: 1.0 μg/mL
Comment:	Anti-PSD95 Antibody is tested for WB, IHC, IF. Expect a band approximately ~100kDa protein
	corresponding to the molecular mass of PSD-95 on SDS PAGE immunoblots. Additional cross-
	reactive bands are detected at $\sim\!80\text{kDa}$ and $\sim\!50\text{kDa}$ in rat and mouse samples. Specific
	conditions for reactivity should be optimized by the end user. Product is provided in PBS pH 7.4.

Application Details

Handling

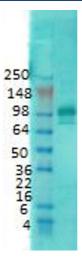
Handling	
Format:	Liquid
Buffer:	Buffer: See application note. Stabilizer: 50 % (v/v) Glycerol Preservative: 0.09 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

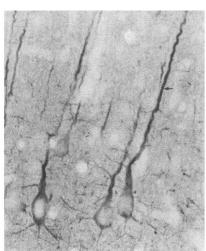
Images



Immunofluorescence

Image 1. PSD95 Immunofluorescence Immunohistochemistry of mouse anti-Slo2.1 antibody. Tissue: Sections of mouse backskin. Primary Antibody: Slo2.1 antibody at 1 μ g/mL for 1h at RT. Secondary antibody: Peroxidase mouse secondary at 1:10,000 for 45 min at RT. Localization: Membrane. Staining: Slo2.1 as white signal.





Western Blotting

Image 2. PSD95 Western Blot. Western Blot of mouse anti-PSD95 total antibody. Lane 1: Rat Membrane. Primary antibody: PSD95 total antibody at 1:1000 for overnight at 4°C. Secondary antibody: Goat anti-mouse IgG HRP secondary antibody at 1:10,000 for 45 min at RT. Block: 5% Blotto overnight 4°C. Predicted/Observed size: 80.4 kDa/100kD. Other band(s): ~80kDa and ~50kDa in rat and mouse samples.

Immunohistochemistry

Image 3. PSD95 Immunohistochemistry Immunocytochemistry of Mouse anti-PSD95 antibody. Tissue: Rat neocortex. Fixation: N/A Antigen retrieval: not required. Primary antibody: PSD95 antibody at 10 ug/mL for 1h at RT. Secondary antibody: Fluorescein mouse secondary antibody at 1:10,000 for 45 min at RT. Localization: PSD95 is cell membrane and cell junctions. Staining: PSD95 as precipitated black signal.