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# anti-DLG4 antibody (HRP)





#### Overview

Quantity:	100 μg
Target:	DLG4
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This DLG4 antibody is conjugated to HRP
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), Antibody Array (AA)

#### **Product Details**

Immunogen:	Recombinant rat PSD-95	
Clone:	7E3	
Isotype:	lgG1	
Specificity:	Detects $\sim$ 100 kDa. An additional protein of >100 kDa is also detected. Additional cross-reactive bands are detected at $\sim$ 75 kDa and 50 kDa in rat and mouse samples.	
Cross-Reactivity:	Cow, Human, Mouse, Rat	
Purification:	Protein G Purified	

## Target Details

Target:	DLG4	

## Target Details

Alternative Name:	PSD95 (DLG4 Products)	
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 (1). 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-termina	
	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 (2). Thus different PDZ domains of PSD-95 might be specialized for distinct	
	functions (3, 4). PSD95 participates in synaptic targeting of AMPA receptors through an indirect	
	manner involving Stargazin and related transmembrane AMPA receptor regulatory proteins	
	(TARPs) (5). The protein is implicated in experience dependent plasticity and plays an	
	indispensable role in learning (6). Mutations in PSD95 are associated with autism (7).	
Gene ID:	29495	
NCBI Accession:	NP_062567	
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:	• WB (1:1000)	
	• IHC (1:1000)	
	ICC/IF (1:100)     Portional dilutions for access should be determined by the user.	
	<ul> <li>optimal dilutions for assays should be determined by the user.</li> </ul>	
Comment:	1 $\mu$ g/ml was sufficient for detection of PSD-95 on 20 $\mu$ g rat brain tissue extract by ECL	
	immunoblot analysis using Goat Anti-Mouse IgG: HRP as the secondary.	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	

#### Handling

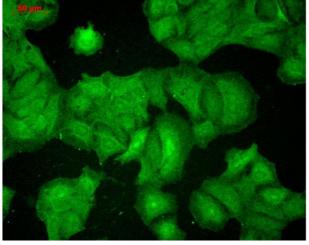
Concentration:	1 mg/mL	
Buffer:	PBS pH 7.4, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated	
Preservative:	Sodium azide	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.	
Storage:	4 °C	
Storage Comment:	Conjugated antibodies should be stored at 4°C	

#### Validation report #103875 for Immunofluorescence (IF)



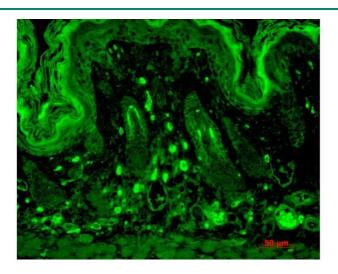
#### **Immunohistochemistry**

**Image 1.** Immunohistochemistry analysis using Mouse Anti-PSD95 Monoclonal Antibody, Clone 7E3 . Tissue: Neocortex. Species: Rat. Primary Antibody: Mouse Anti-PSD95 Monoclonal Antibody at 1:1000.



#### Immunofluorescence (fixed cells)

**Image** 2. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-PSD95 Monoclonal Antibody, Clone 7E3. Tissue: HaCaT cells. Species: Human. Fixation: Cold 100% methanol for 10 minutes at -20°C. Primary Antibody: Mouse Anti-PSD95 Monoclonal Antibody at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Filamentous-like staining.



#### **Immunohistochemistry**

Image 3. Immunohistochemistry analysis using Mouse Anti-PSD95 Monoclonal Antibody, Clone 7E3. Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative and paraffinembedded. Primary Antibody: Mouse Anti-PSD95 Monoclonal Antibody at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Basal cell staining in the epidermis, some hair follicle staining, dermal staining.

Please check the product details page for more images. Overall 4 images are available for ABIN2484834.