

# PSD-95 ABfinity™ Recombinant Rabbit Monoclonal Antibody - Purified

Catalog no. 700902

(See product label for lot information)



**Clone/PAD:** 23H23L19  
**Isotype:** IgG  
**Gene ID:** 1742  
**Protein Acc. no.:** P78352  
**Qty:** 100 µg  
**Volume:** 200 µl  
**Concentration:** 0.5 mg/mL

## Formulation

PBS + 0.09% sodium azide

## Validation

Validated for use in WB

## Immunogen

Peptide

## Immunogen sequence

EEIYHKVKRVEDLSGP

## Sequence Identity

Human

## Expected Reactivity

Based on sequence identity and similarity, reactivity to Human and is expected.

## Storage

2-8°C for up to 1 month, -20°C for long term storage. Avoid repeated freezing and thawing.

## Expiration Date

Expires one year from date of receipt when stored as instructed.

## Background

PSD-95 (Postsynaptic density-95) also known as Disks large homolog 4 is a protein that in humans is encoded by the DLG4 gene (3). This gene encodes a member of the membrane-associated guanylate kinase (MAGUK) family (4). PSDs were originally identified as an electron-dense region at the membrane of a postsynaptic neuron (5). PSD-95 interacts with NMDA receptor subunit and potassium channels and is required for synaptic plasticity associated with NMDA receptor signaling (1,2).

## References

- (1) Funk, A.J., Rumbaugh, G., Harotunian, V., McCullumsmith, R.E., and Meador-Woodruff, J.H. (2009). Decreased expression of NMDA receptor-associated proteins in frontal cortex of elderly patients with schizophrenia. *Neuroreport* 20, 1019-1022.
- (2) Nehring, R.B., Wischmeyer, E., Doring, F., Veh, R.W., Sheng, M., and Karschin, A. (2000). Neuronal inwardly rectifying K(+) channels differentially couple to PDZ proteins of the PSD-95/SAP90 family. *J Neurosci* 20, 156-162.
- (3) Stathakis, D.G., Hoover, K.B., You, Z., and Bryant, P.J. (1997). Human postsynaptic density-95 (PSD95): location of the gene (DLG4) and possible function in nonneural as well as in neural tissues. *Genomics* 44, 71-82.
- (4) Ziff, E.B. (1997). Enlightening the postsynaptic density. *Neuron* 19, 1163-1174.

Following applications had been tested during development. To make sure the consistency and reliability in the future lots, each lot is tested with antigen ELISA for specificity and potency. Each lot is also tested with SDS-PAGE, to ensure high purity.

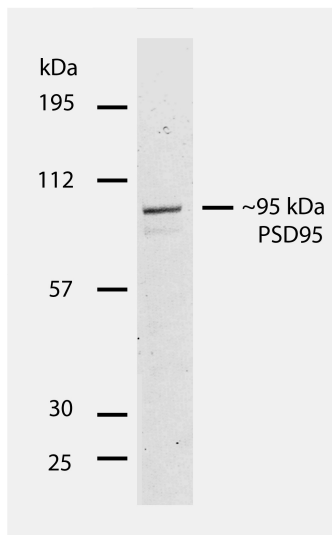
## Applications:

	Species	Test Material	Concentration
Western Blotting	Rat	Rat brain (4-weeks)	0.1-1 µg/ml

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**Western Blot of PSD-95 labeled with rabbit anti-PSD-95 (Cat. No. 700902).**

Rabbit anti-PSD-95 (0.1 µg/ml) was used to label PSD-95 in Rat Brain (4-weeks) cell lysate (30 µg/lane). The western was performed using the WesternBreeze® kit with NBT/BCIP as the substrate (Cat. No. WB7105).

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