

Product datasheet

Anti-PSD95 (phospho T19) antibody [EPR2619(2)]  
ab172628

Recombinant RabMAb

2 References 1 Image

Overview

<b>Product name</b>	Anti-PSD95 (phospho T19) antibody [EPR2619(2)]
<b>Description</b>	Rabbit monoclonal [EPR2619(2)] to PSD95 (phospho T19)
<b>Host species</b>	Rabbit
<b>Specificity</b>	ab172628 only detects PSD95 phosphorylated at Threonine 19.
<b>Tested applications</b>	<b>Suitable for:</b> WB, IP <b>Unsuitable for:</b> ICC or IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide (the amino acid sequence is considered to be commercially sensitive) within Human PSD95 aa 1-100 (phospho T19) (Cysteine residue). The exact sequence is proprietary. Database link: <a href="#">P78352</a>
<b>Positive control</b>	Fetal brain lysate.
<b>General notes</b>	Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .  This product is a <a href="#">recombinant rabbit monoclonal antibody</a> .

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol, 0.05% BSA, 50% Tissue culture supernatant
<b>Purity</b>	Tissue culture supernatant
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR2619(2)
<b>Isotype</b>	IgG

## Applications

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Our [Abpromise guarantee](#) covers the use of **ab172628** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000 - 1/10000. Predicted molecular weight: 80 kDa.
IP		Use at an assay dependent concentration.
<b>Application notes</b>		Is unsuitable for ICC or IHC-P.

## Target

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### Function

Interacts with the cytoplasmic tail of NMDA receptor subunits and shaker-type potassium channels. Required for synaptic plasticity associated with NMDA receptor signaling. Overexpression or depletion of DLG4 changes the ratio of excitatory to inhibitory synapses in hippocampal neurons. May reduce the amplitude of ASIC3 acid-evoked currents by retaining the channel intracellularly. May regulate the intracellular trafficking of ADR1B.

### Tissue specificity

Brain.

### Sequence similarities

Belongs to the MAGUK family.  
Contains 1 guanylate kinase-like domain.  
Contains 3 PDZ (DHR) domains.  
Contains 1 SH3 domain.

### Domain

The PDZ domain 3 mediates interaction with ADR1B.  
The L27 domain near the N-terminus of isoform 2 is required for HGS/HRS-dependent targeting to postsynaptic density.

### Post-translational modifications

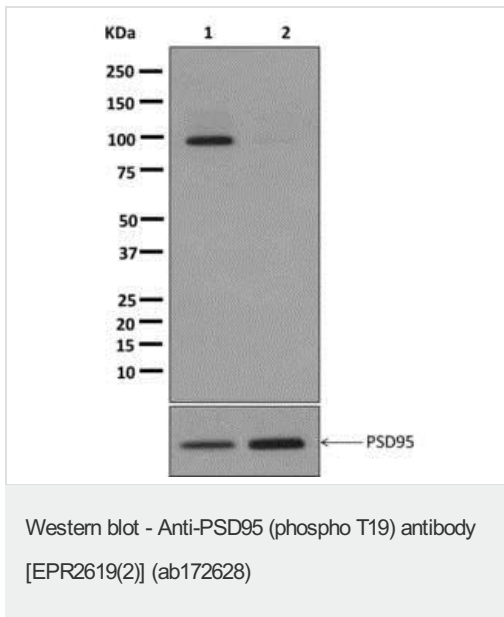
Palmitoylation of isoform 1 is required for targeting to postsynaptic density.

### Cellular localization

Cell membrane. Cell junction, synapse, postsynaptic cell membrane, postsynaptic density. Cell projection, axon. Cell junction, synapse. High levels in postsynaptic density of neurons in the forebrain. Also in presynaptic region of inhibitory synapses formed by cerebellar basket cells on axon hillocks of Purkinje cells.

## Images

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**All lanes :** Anti-PSD95 (phospho T19) antibody [EPR2619(2)] (ab172628) at 1/1000 dilution

**Lane 1 :** Fetal brain lysate, untreated

**Lane 2 :** Fetal brain lysate, treated with Lambda Phosphatase

Lysates/proteins at 10 µg per lane.

**Predicted band size:** 80 kDa

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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