

## Product datasheet

# Anti-PSD95 (phospho S295) antibody [EP2615Y] - BSA and Azide free ab284739

RabMAb

[1 Image](#)

### Overview

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|                            |                                                                                              |
|----------------------------|----------------------------------------------------------------------------------------------|
| <b>Product name</b>        | Anti-PSD95 (phospho S295) antibody [EP2615Y] - BSA and Azide free                            |
| <b>Description</b>         | Rabbit monoclonal [EP2615Y] to PSD95 (phospho S295) - BSA and Azide free                     |
| <b>Host species</b>        | Rabbit                                                                                       |
| <b>Tested applications</b> | <b>Suitable for:</b> WB<br><b>Unsuitable for:</b> Flow Cyt or IHC-P                          |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Rat, Human                                                               |
| <b>Immunogen</b>           | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.            |
| <b>Positive control</b>    | WB: Human brain tissue treated with LP and rat brain lysates, untreated and treated with LP. |
| <b>General notes</b>       | ab284739 is the carrier-free version of <a href="#">ab76108</a>                              |

Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.

This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.

Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb<sup>®</sup> patents](#).

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be

found below, along with publications, customer reviews and Q&As

## Properties

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|                             |                                  |
|-----------------------------|----------------------------------|
| <b>Form</b>                 | Liquid                           |
| <b>Storage instructions</b> | Shipped at 4°C. Store at +4°C.   |
| <b>Storage buffer</b>       | pH: 7.2<br>Constituent: 100% PBS |
| <b>Carrier free</b>         | Yes                              |
| <b>Purity</b>               | Tissue culture supernatant       |
| <b>Clonality</b>            | Monoclonal                       |
| <b>Clone number</b>         | EP2615Y                          |
| <b>Isotype</b>              | IgG                              |

## Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab284739 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          |           | Use at an assay dependent concentration. Predicted molecular weight: 80 kDa. |

**Application notes** Is unsuitable for Flow Cyt or IHC-P.

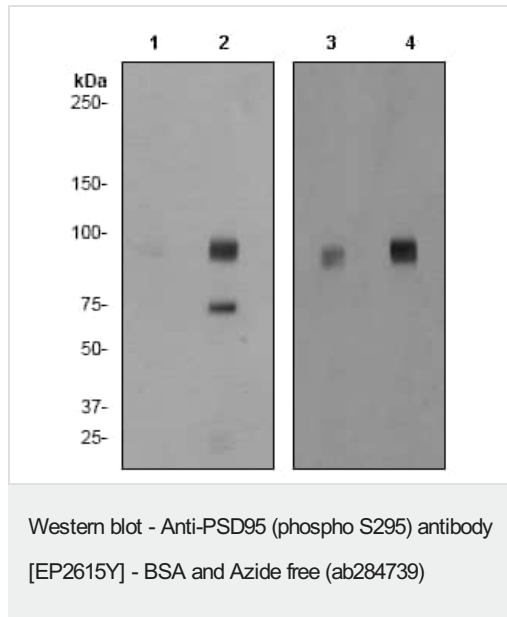
## Target

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|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Function</b>                         | 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. |
| <b>Tissue specificity</b>               | Brain.                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Sequence similarities</b>            | Belongs to the MAGUK family.<br>Contains 1 guanylate kinase-like domain.<br>Contains 3 PDZ (DHR) domains.<br>Contains 1 SH3 domain.                                                                                                                                                                                                                                                                                                                  |
| <b>Domain</b>                           | The PDZ domain 3 mediates interaction with ADR1B.<br>The L27 domain near the N-terminus of isoform 2 is required for HGS/HRS-dependent targeting to postsynaptic density.                                                                                                                                                                                                                                                                            |
| <b>Post-translational modifications</b> | Palmitoylation of isoform 1 is required for targeting to postsynaptic density.                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Cellular localization</b>            | 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



**All lanes** : Anti-PSD95 (phospho S295) antibody [EP2615Y] (**ab76108**) at 1/20000 dilution

**Lane 1** : Human brain tissue lysate, treated with LP

**Lane 2** : Human brain tissue lysate untreated

**Lane 3** : Rat brain lysate, treated with LP

**Lane 4** : Rat brain lysate, untreated

**Predicted band size:** 80 kDa

**Observed band size:** 95 kDa

This data was developed using **ab76108**, the same antibody clone in a different buffer formulation.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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