

## Purified anti-PSD95 Antibody (Previously Covance catalog# MMS-5182)

<b>Catalog# / Size</b>	810401 / 100 µL
<b>Clone</b>	K28/43
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Disks large homolog 4, discs large homolog 4, Tax interaction protein 15, synapse-associated protein 90, postsynaptic density protein 95, post-synaptic density protein 95, Dlg4, PSD-95, PSD95, SAP90, SAP90A, PSD-95 alpha 2b, PSD-95 beta
<b>Previously</b>	Covance Catalog# MMS-5182
<b>Isotype</b>	Mouse IgG2a, κ
<b>Description</b>	PSD95, also known as SAP-90, is a member of the MAGUK family, encoded by the the DLG4 gene. At postsynaptic sites, it mediates the scaffolding of NMDA receptors, AMPA receptors, potassium channels, and other associated signaling protein clusters. It plays an important role in synaptic plasticity and the stabilization of synaptic changes during long-term potentiation.

### Product Details

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<b>Verified Reactivity</b>	Human, Rat, Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	This monoclonal antibody was raised against a fusion protein corresponding to amino acids 77-299 (PDZ domains 1 and 2) of human PSD-95.
<b>Formulation</b>	Phosphate-buffered solution.
<b>Preparation</b>	The antibody was purified by affinity chromatography.
<b>Concentration</b>	1 mg/ml
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C. Please note the storage condition for this antibody has been changed from -20°C to between 2°C and 8°C. You can also check your vial or your CoA to find the most accurate storage condition for this antibody.
<b>Application</b>	<a href="#">WB - Quality tested</a> <a href="#">IHC-P - Verified</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">Western blotting</a> . For Western blotting, the suggested use of this reagent is 0.01 - 0.05 µg per ml. For immunohistochemistry, a concentration of 10 µg/ml is suggested. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Application Notes</b>	This antibody is effective in immunoblotting (WB), Immunohistochemistry on formalin-fixed paraffin-embedded tissue (IHC-P).
<b>Product Citations</b>	<ol style="list-style-type: none"><li>1. Brown EA, <i>et al.</i> 2018. Mol Autism. 9:48. <a href="#">PubMed</a></li><li>2. Shi Y, <i>et al.</i> 2020. J Alzheimers Dis. 76:1375. <a href="#">PubMed</a></li><li>3. Szabó LE, <i>et al.</i> 2021. Sci Rep. 1.413194444. <a href="#">PubMed</a></li><li>4. Ivanova D, <i>et al.</i> 2021. Science Advances. 7(18):. <a href="#">PubMed</a></li></ol>
<b>RRID</b>	AB_2564750 (BioLegend Cat. No. 810401)

### Antigen Details

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<b>Structure</b>	Expected MW: 100 kD
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<b>Biology Area</b>	Cell Biology, Neuroscience, Synaptic Biology
<b>Molecular Family</b>	Postsynaptic proteins
<b>Gene ID</b>	<a href="#">1742</a>

## Related Protocols

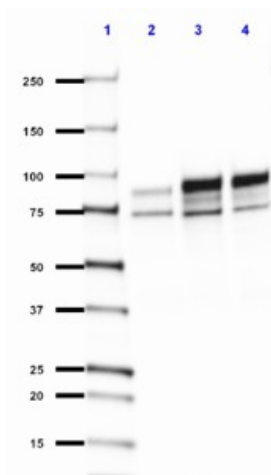
[Western Blotting Protocol](#)

[Immunohistochemistry Protocol for Paraffin-Embedded Sections](#)

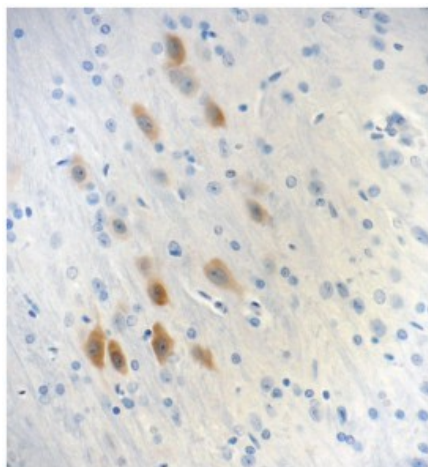
## Other Formats

Purified anti-PSD95

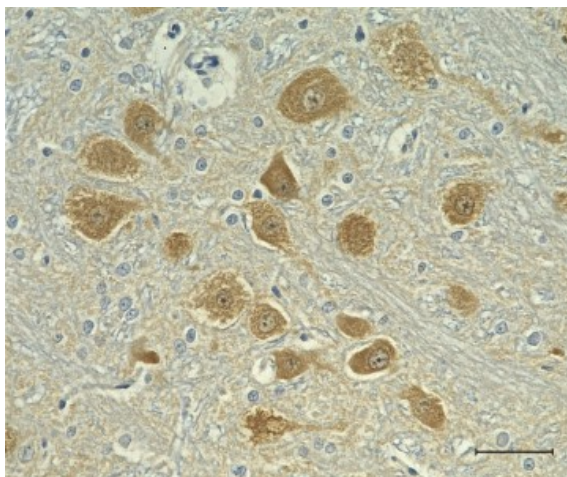
## Product Data



Western blot of purified anti-PSD95 antibody (clone K28/43). Lane 1: Molecular weight marker; Lane 2: 20  $\mu$ g of human brain membrane lysate; Lane 3: 20  $\mu$ g of mouse brain membrane lysate; Lane 4: 20  $\mu$ g of rat brain membrane lysate. The blot was incubated with 0.05  $\mu$ g/mL of the primary antibodies overnight at 4°C, followed by incubation with HRP labeled goat anti-mouse IgG (Cat. No. 405306). Enhanced chemiluminescence was used as the detection system.



IHC staining of purified anti-PSD95 antibody (clone K28/43) on formalin-fixed paraffin-embedded rat brain tissue. Following antigen retrieval using Sodium Citrate H.I.E.R (Cat. No. 928602), the tissue was incubated with 10  $\mu$ g/ml of the primary antibody overnight at 4°C. BioLegend's Ultra-Streptavidin (USA) HRP kit (Multi-Species, DAB, Cat. No. 929901) was used for detection followed by hematoxylin counterstaining, according to the protocol provided. The image was captured with a 40X objective.



IHC staining of purified anti-PSD95 antibody (clone K28/43) on formalin-fixed paraffin-embedded rat brain tissue. Following antigen retrieval using Sodium Citrate H.I.E.R (Cat. No. 928602), the tissue was incubated with 10 µg/ml of the primary antibody overnight at 4°C. BioLegend's Ultra-Streptavidin (USA) HRP kit (Multi-Species, DAB, Cat. No. 929901) was used for detection followed by hematoxylin counterstaining, according to the protocol provided. The image was captured with a 40X objective. Scale bar: 50 µm

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