

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

Catalog# / Size	810401 / 100 µL
Clone	K28/43
Regulatory Status	RUO
Other Names	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
Previously	Covance Catalog# MMS-5182
Isotype	Mouse IgG2a, κ
Description	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

Verified Reactivity	Human, Rat, Mouse
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	This monoclonal antibody was raised against a fusion protein corresponding to amino acids 77-299 (PDZ domains 1 and 2) of human PSD-95.
Formulation	Phosphate-buffered solution.
Preparation	The antibody was purified by affinity chromatography.
Concentration	1 mg/ml
Storage & Handling	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.
Application	WB - Quality tested IHC-P - Verified
Recommended Usage	Each lot of this antibody is quality control tested by Western blotting . 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.
Application Notes	This antibody is effective in immunoblotting (WB), Immunohistochemistry on formalin-fixed paraffin-embedded tissue (IHC-P).
Product Citations	<ol style="list-style-type: none">1. Sarn N, <i>et al.</i> 2020. Mol Psychiatry. . PubMed2. Shi Y, <i>et al.</i> 2020. J Alzheimers Dis. 76:1375. PubMed3. Brown EA, <i>et al.</i> 2018. Mol Autism. 9:48. PubMed4. Szabó LE, <i>et al.</i> 2021. Sci Rep. 1.413194444. PubMed5. Yamasaki S, <i>et al.</i> 2022. iScience. 25:103657. PubMed6. Inouye MO, <i>et al.</i> 2022. Life Sci Alliance. 5:. PubMed7. Ivanova D, <i>et al.</i> 2021. Science Advances. 7(18):. PubMed8. Lautz JD, <i>et al.</i> 2021. Cell Rep. 37:110076. PubMed9. Rosa J, <i>et al.</i> 2022. Cells. 11:. PubMed10. Stillman M, <i>et al.</i> 2022. Sci Rep. 12:3207. PubMed11. Comer AL, <i>et al.</i> 2020. PLoS Biol. 18:e3000604. PubMed
RRID	AB_2564750 (BioLegend Cat. No. 810401)

Antigen Details

Structure	Expected MW: 100 kD
Biology Area	Cell Biology, Neuroscience, Synaptic Biology
Molecular Family	Postsynaptic proteins
Gene ID	1742

Related Protocols

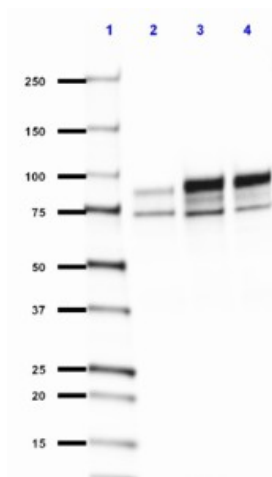
[Western Blotting Protocol](#)

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

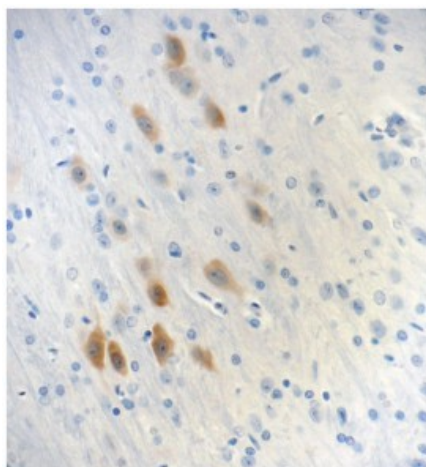
Other Formats

Purified anti-PSD95

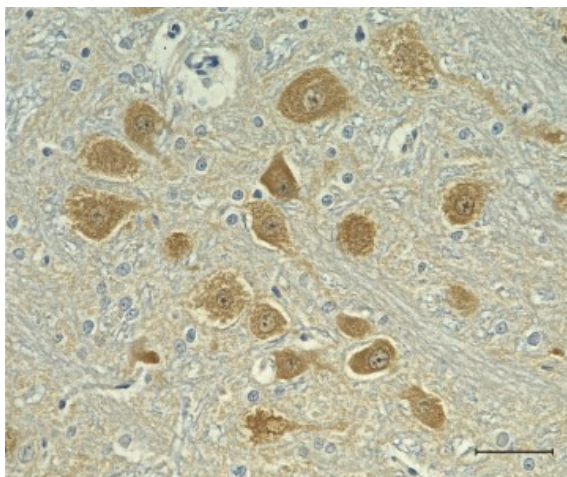
Product Data



Western blot of purified anti-PSD95 antibody (clone K28/43). Lane 1: Molecular weight marker; Lane 2: 20 μ g of human brain membrane lysate; Lane 3: 20 μ g of mouse brain membrane lysate; Lane 4: 20 μ g of rat brain membrane lysate. The blot was incubated with 0.05 μ 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 μ 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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BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587