

Purified anti-PSD-93 (Chapsyn-110) Antibody (Previously Covance catalog# MMS-5129)

Catalog# / Size	818302 / 25 µL 818301 / 100 µL
Clone	N18/28
Regulatory Status	RUO
Other Names	Disks large homolog 2, chapsyn-110, discs large homolog 2, synaptic density protein PSD-93, postsynaptic density protein PSD-93, channel-associated protein of synapse-110, PSD93
Previously	Covance Catalog# MMS-5129
Isotype	Mouse IgG2a, κ
Description	PSD-93, also known as DLG2 or Chapsyn-110, is a member of the MAGUK family important in the scaffolding of receptors with adhesion molecules on the postsynaptic membrane. It regulates surface expression of receptors by directly interacting with the cytoplasmic tail of NMDA receptor subunits and inward rectifying potassium channels, and is involved in the regulation of synaptic stability at synapses.

Product Details

Verified Reactivity	Human, Mouse, Rat
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	This monoclonal antibody was raised against a full-length fusion protein (amino acids 1-852) of rat Chapsyn-110 protein.
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 1.0 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 less reactive in human. The antibody does not cross-react with SAP97, SAP102, or PSD-95.
Product Citations	1. Dalal JS, <i>et al.</i> 2021. Elife. 10: . PubMed
RRID	AB_2734574 (BioLegend Cat. No. 818302) AB_2564819 (BioLegend Cat. No. 818301)

Antigen Details

Structure	Expected MW: 110 kD
Cell Type	Neurons
Biology Area	Cell Biology, Neuroscience, Synaptic Biology
Molecular Family	Cytoskeletal Proteins, Postsynaptic proteins, Scaffold Proteins
Gene ID	64053

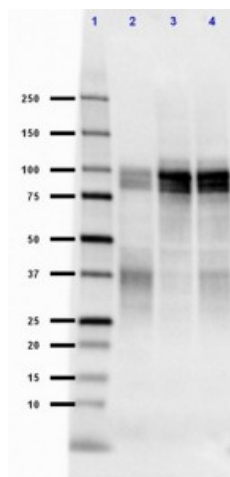
Related Protocols

[Western Blotting Protocol](#)

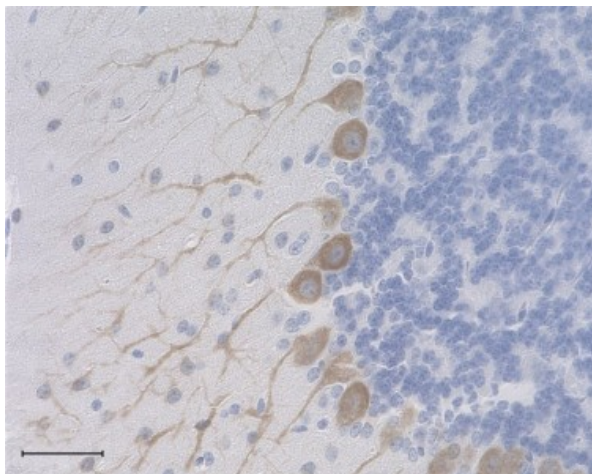
Other Formats

Purified anti-PSD-93 (Chapsyn-110)

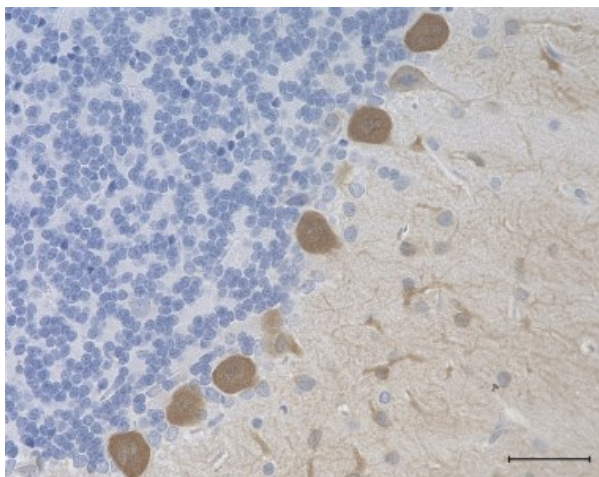
Product Data



Western blot of purified anti-PSD-93 (Chapsyn-110) antibody (clone N18/28). Lane 1: Molecular weight marker; Lane 2: 20 µg of human brain membrane lysate; Lane 3: 20 µg of mouse brain membrane lysate; Lane 4: 20 µg of rat brain membrane lysate. The blot was incubated with 1 µg/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-PSD-93 (Chapsyn-110) antibody (clone N18/28) on formalin-fixed paraffin-embedded mouse brain tissue. Following antigen retrieval using Sodium Citrate H.I.E.R., the tissue was incubated with 10 µg/ml of the primary antibody overnight at 4°C. BioLegend's Ultra-Streptavidin HRP kit (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



IHC staining of anti-PSD-93 (Chapsyn-110) antibody (clone N18/28) on formalin-fixed paraffin-embedded rat brain tissue. Following antigen retrieval using Sodium Citrate H.I.E.R., the tissue was incubated with 10 µg/ml of the primary antibody overnight at 4°C. BioLegend's Ultra-Streptavidin HRP kit (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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