

Purified anti-MAGUK (pan reactive) Antibody (Previously Covance catalog# MMS-5173)

Catalog# / Size	817802 / 25 µL 817801 / 100 µL
Clone	K28/86
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
Previously	Covance Catalog# MMS-5173
Isotype	Mouse IgG1, κ
Description	Membrane-associated guanylate kinases (MAGUK) are a superfamily of scaffolding proteins defined by the presence of a guanylate kinase (GUK) domain. MAGUKs, such as PSD-95, SAP97, PSD-83, CASK, and MAGIs are involved in the synaptic development and function where they are important for the spatial organization of both pre- and postsynaptic proteins, including glutamate and other receptors.

Product Details

Verified Reactivity	Human, Mouse, Rat, Drosophila
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	This monoclonal antibody was raised against a fusion protein corresponding to amino acids 77-299 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	IHC-P - Quality tested WB - Verified
Recommended Usage	Each lot of this antibody is quality control tested by formalin-fixed paraffin-embedded immunohistochemical staining. For immunohistochemistry, a concentration range of 0.5 - 1.0 µg/ml is suggested. For Western blotting, the suggested use of this reagent is 0.5 - 10.0 µg per ml. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes	This antibody is less reactive in human tissue in IHC-P. Reactivity to Drosophila was only verified with the purified format.
Additional Product Notes	For Western blotting, the suggested use of this reagent is 1 - 10 µg/ml in human, mouse, and rat and 0.5 - 10 µg/ml in Drosophila.
RRID	AB_2734572 (BioLegend Cat. No. 817802) AB_2564814 (BioLegend Cat. No. 817801)

Antigen Details

Structure	Expected MW: 95-110 kD
Biology Area	Cell Biology, Neuroscience, Synaptic Biology
Molecular Family	Postsynaptic proteins
Gene ID	1742

Related Protocols

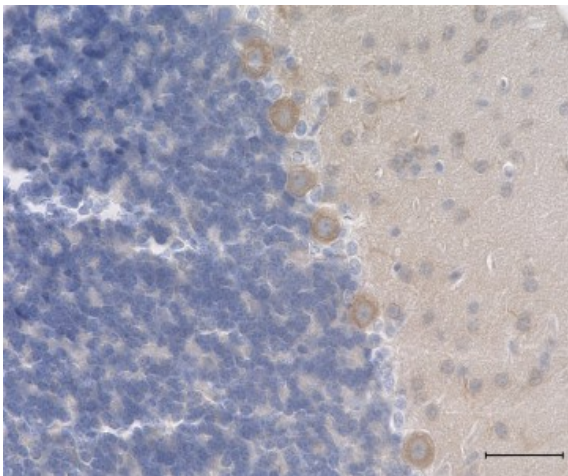
[Western Blotting Protocol](#)

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

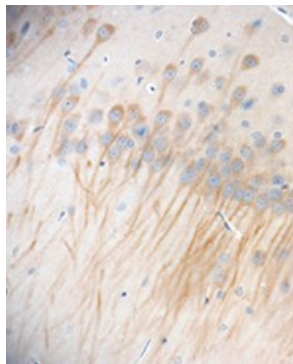
Other Formats

Purified anti-MAGUK (pan reactive), HRP anti-MAGUK (pan reactive)

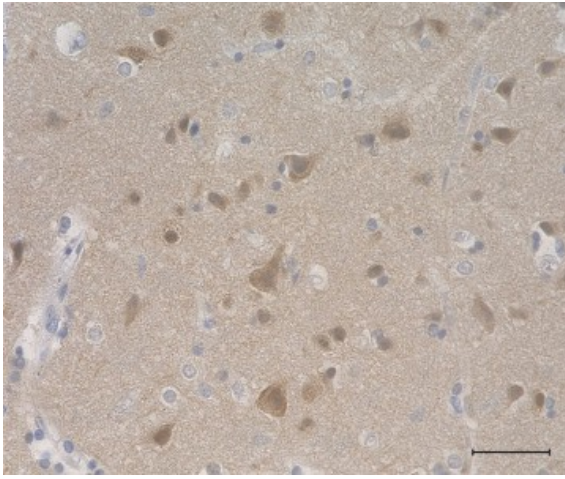
Product Data



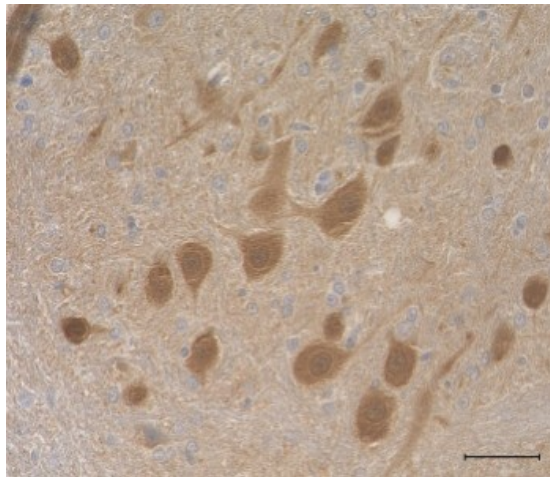
IHC staining of purified anti-MAGUK (pan reactive) antibody (clone K28/86) on formalin-fixed paraffin-embedded mouse brain tissue. Following antigen retrieval using Sodium Citrate H.I.E.R (Cat. No. 928602), the tissue was incubated with 1 $\mu\text{g}/\text{ml}$ of the primary antibody overnight at 4°C. 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



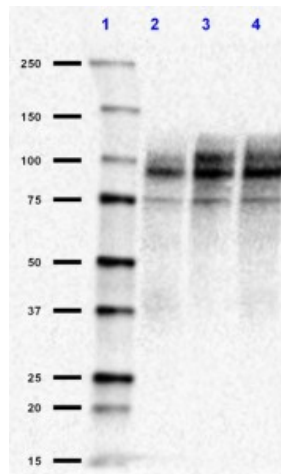
IHC staining of purified anti-MAGUK (pan reactive) antibody (clone K28/86) on formalin-fixed paraffin-embedded rat brain tissue. Following antigen retrieval using Sodium Citrate H.I.E.R (Cat. No. 928602), the tissue was incubated with 1 $\mu\text{g}/\text{ml}$ of the primary antibody overnight at 4°C. 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.



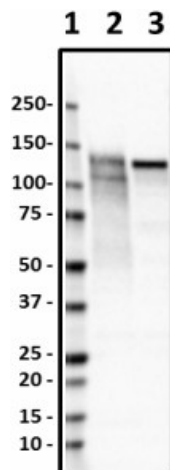
IHC staining of purified anti-MAGUK (pan reactive) antibody (clone K28/86) on formalin-fixed paraffin-embedded human brain tissue. Following antigen retrieval using Sodium Citrate H.I.E.R. (Cat. No. 928602), the tissue was incubated with 1 $\mu\text{g}/\text{ml}$ of the primary antibody overnight at 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



IHC staining of purified anti-MAGUK (pan reactive) antibody (clone K28/86) 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 1 $\mu\text{g}/\text{ml}$ 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



Western blot of purified anti-MAGUK (pan reactive) antibody (clone K28/86). 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 10 $\mu\text{g}/\text{mL}$ of the primary antibodies overnight at 4°C, followed by incubation with HRP labeled goat anti-mouse IgG (Cat. No. 405301). Enhanced chemiluminescence was used as the detection system.



Western blot of purified anti-MAGUK antibody (K28/86). Lane 1: Molecular weight marker; Lane 2: 20 μg of *Drosophila* head lysate; Lane 3: 20 μg of *Drosophila* S2 (embryonic) cell lysate. The blot was incubated with 0.5 $\mu\text{g}/\text{mL}$ of the primary antibody overnight at 4°C, followed by incubation with HRP-labeled goat anti-mouse IgG (Cat. No. 436302). Enhanced chemiluminescence was used as the detection system.

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