

PSD-95 Monoclonal Antibody (6G6-1C9)

Product Details

Size	100 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Rat, C. elegans, Non-human primate, Mouse, Human
Host/Isotype	Mouse / IgG2a
Class	Monoclonal
Type	Antibody
Clone	6G6-1C9
Conjugate	Unconjugated
Immunogen	Purified recombinant rat PSD-95.
Form	Liquid
Concentration	3.3 mg/mL
Purification	Protein A
Storage buffer	PBS
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_325399

Applications	Tested Dilution	Publications
Western Blot (WB)	1:2,000	65 Publications
Immunohistochemistry (IHC)	-	41 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	9 Publications
Immunocytochemistry (ICC/IF)	1:500	95 Publications
Flow Cytometry (Flow)	2 µg/test	-
Immunoprecipitation (IP)	Assay-dependent	8 Publications
ChIP assay (ChIP)	-	1 Publication
Neutralization (Neu)	-	1 Publication
Miscellaneous PubMed (Misc)	-	2 Publications

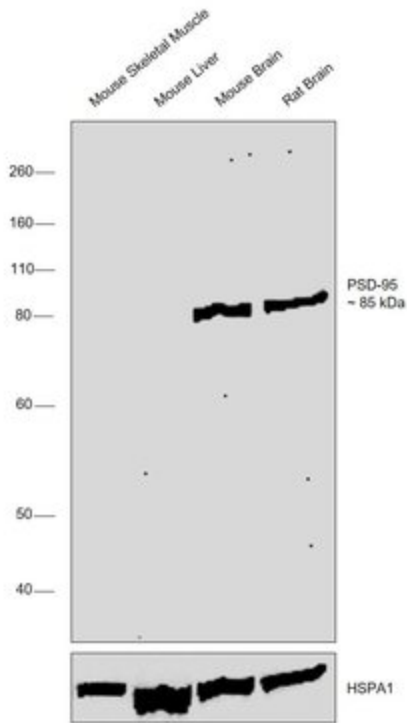
Product Specific Information

MA1-045 has been successfully used in immunofluorescence analysis of PSD95 in human motor neurons derived from iPSCs.

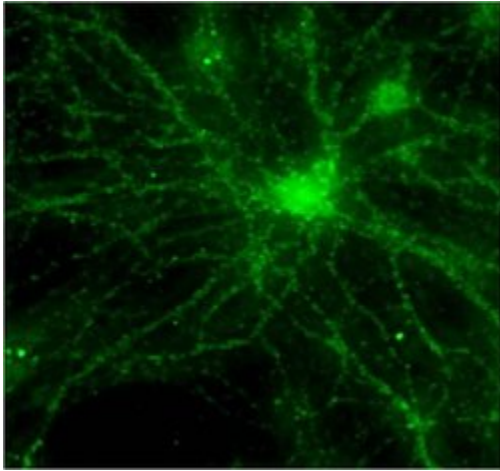
Advanced Verification Data

PSD-95 Antibody (MA1-045)

Antibody specificity was demonstrated by detection of differential basal expression of the target across tissues owing to their inherent genetic constitution. Relative expression of PSD-95 was observed in Mouse Brain in comparison to Mouse Skeletal Muscle and Mouse Liver using Anti-PSD-95 Monoclonal Antibody (6G6-1C9) (Product # MA1-045) in Western Blot. Relative expression validation info.

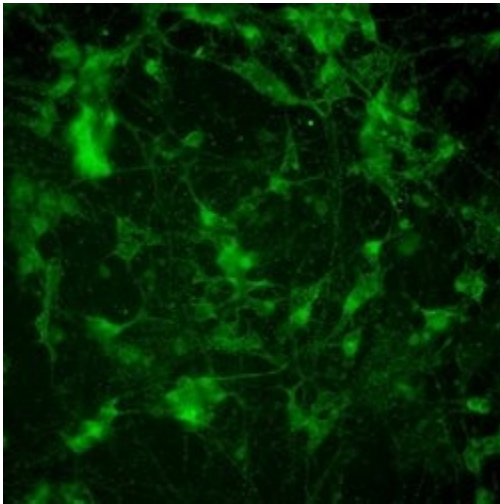


Product Images For PSD-95 Monoclonal Antibody (6G6-1C9)



PSD-95 Antibody (MA1-045) in ICC/IF

Immunofluorescent analysis of Post Synaptic Density 95kD protein (PSD95, green) in cultured primary cortical neurons. Primary cortical neurons are isolated and cultured using the Primary Neuron Isolation Kit (Product # 88280). At day 28, neurons were fixed with 4% paraformaldehyde, permeabilized with 0.1% triton X-100 in HBSS for 10 minutes at room temperature, and blocked with 3% BSA in PBS (Product # 37525) for 30 minutes at room temperature. Cells were probed with a PSD95 monoclonal antibody (Product # MA1-045) at a dilution of 1:500 for 2 hours at room temperature or overnight at 4 °C, washed with HBSS, and incubated with DyLight 488 goat anti-mouse IgG secondary antibody (Product # 35502) at dilution of 1:500 for 1 hour at room temperature. Images were taken at 20X magnification on a Carl Zeiss microscopy (AxioVision Rel. 4.7).



PSD-95 Antibody (MA1-045) in ICC/IF

Immunofluorescence analysis of PSD95 (green) in human motor neurons derived from iPSCs. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.2% Triton X-100 in PBS for 10 minutes, and blocked with 5% donkey serum in PBS for 15 minutes at room temperature. Cells were stained with a PSD95 monoclonal antibody (Product # MA1-045) diluted at 1:500 in 5% donkey serum overnight at 4°C, and then incubated with a Goat anti-Mouse IgG (H+L) Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) at a dilution of 1:1000 for 1 hour at room temperature (green). Note: Data courtesy of Innovators Program.

[View more figures on thermofisher.com](https://www.thermofisher.com)

Western Blot (65)

Molecular autism

Hippocampal neurons isolated from rats subjected to the valproic acid model mimic in vivo synaptic pattern: evidence of neuronal priming during early development in autism spectrum disorders.

"MA1-045 was used in Western Blotting to suggest microglial role is not determinant for developing neuronal alterations or counteracting neuronal outcome in the hippocampus and highlights the crucial role of hippocampal neurons and structural plasticity in the establishment of the synaptic alterations in the VPA rat model."

Authors: Traetta ME, Codagnone MG, Uccelli NA, Ramos AJ, Zárate S, Reinés A

Species
Rat

Dilution
Not Cited

Year
2021

Molecular psychiatry

Full recovery of the Alzheimer's disease phenotype by gain of function of vacuolar protein sorting 35.

"MA1-045 was used in Western Blotting to demonstrate that VPS35 is directly involved in the development of Alzheimer's disease-like phenotype."

Authors: Li JG, Chiu J, Praticò D

Species
Mouse

Dilution
Not Cited

Year
2020

[View more WB references on thermofisher.com](#)

Immunohistochemistry (41)

Neuron

Rescuing Over-activated Microglia Restores Cognitive Performance in Juvenile Animals of the Dp(16) Mouse Model of Down Syndrome.

"MA1-045 was used in Immunohistochemistry to study the roles of microglia in cognitive deficits in Dp(16)-mouse."

Authors: Pinto B, Morelli G, Rastogi M, Savardi A, Fumagalli A, Petretto A, Bartolucci M, Varea E, Catelani T, Contestabile A, Perlini LE, Cancedda L

Species
Mouse

Dilution
1:100

Year
2020

The Journal of neuroscience : the official journal of the Society for Neuroscience

Astrocytic Ephrin-B1 Controls Excitatory-Inhibitory Balance in Developing Hippocampus.

"MA1-045 was used in Immunohistochemistry to examine whether the loss or overexpression of the membrane-bound ephrin-B1 in astrocytes during postnatal day 14-28 period would affect synapse formation and maturation in the developing hippocampus."

Authors: Nguyen AQ, Sutley S, Koeppen J, Mina K, Woodruff S, Hanna S, Vengala A, Hickmott PW, Obenaus A, Ethell IM

Species
Mouse

Dilution
Not Cited

Year
2020

[View more IHC references on thermofisher.com](#)

More applications with references on thermofisher.com

IHC (F) (9)

ICC/IF (95)

IP (8)

ChIP (1)

Neu (1)

Misc (2)

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