

PSD-95 Polyclonal Antibody

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Rat, Mouse, Human, Chicken, Xenopus
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	KLH-conjugated synthetic peptide derived from the C-terminal region of human PSD-95.
Form	Liquid
Concentration	0.25 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7.4
Contains	0.1% sodium azide
Storage Conditions	-20°C
RRID	AB_2533914

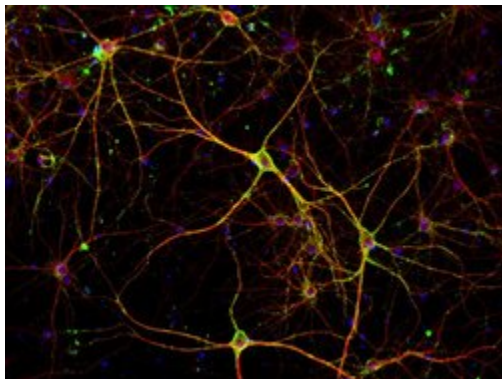
Applications	Tested Dilution	Publications
Western Blot (WB)	1.0 µg/mL	10 Publications
Immunohistochemistry (IHC)	-	21 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	3 Publications
Immunohistochemistry - Free Floating (IHC (Free))	-	3 Publications
ELISA (ELISA)	0.1-1.0 µg/mL	-
Immunoprecipitation (IP)	5 µg	-
Immunocytochemistry (ICC/IF)	1:200	8 Publications
Miscellaneous PubMed (Misc)	-	5 Publications

Product Specific Information

This antibody recognizes the 95 kDa PSD-95 protein. Cross-reactivity with an unknown protein at ~50 kDa has been observed in western blots with rat brain homogenates. Western blots with mouse brain homogenates did not show such a band.

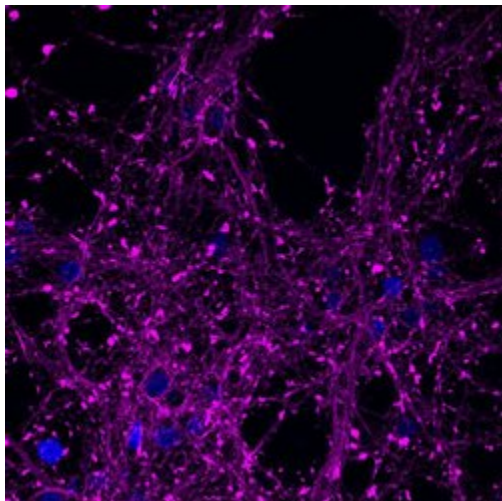
Positive reactivity of this antibody was confirmed on western blots of rat brain homogenates and lysates of PSD-95- transfected HEK293 (human embryonic kidney) cells.

Product Images For PSD-95 Polyclonal Antibody



PSD-95 Antibody (51-6900) in ICC/IF

Immunofluorescent analysis of PSD-95 (green) and MAP2 (red) on rat primary cortical neurons cultured for 28 days in the B-27 Plus Neuronal Culture System (Product # A3653401). At day 28 the cells were fixed with 4% paraformaldehyde for 15 min, permeabilized with 0.1% triton X-100 for 30min, and blocked with 1% BSA for 30 min at room temperature. Cells were stained with anti-PSD95 antibody (Product # 51-6900) at a dilution of 1:200, and anti-MAP2 (Product # 13-1500) at a dilution of 1:400, in 1% BSA staining buffer, overnight at 4C, and then incubated with Alexa Fluor 488 conjugated donkey anti-rabbit (Product # A-21206) and Alexa Fluor 594 donkey anti-mouse (Product # A-21203) antibodies at a dilution of 1:1000 for 30 min. at room temp. Wash 3 times with DPBS. Stain with DAPI for nucleus.



PSD-95 Antibody (51-6900) in ICC/IF

Immunofluorescent analysis of postsynaptic density protein (PSD-95) in E18 Sparague Dawley primary cortical neuronal cells. The cells were fixed with 4% formaldehyde for 15 mins, permeabilized with 0.25% Triton X-100 in PBS for 10 mins, and blocked with 3% BSA in PBS for 30 mins at RT. Cells were stained with a PSD-95 rabbit polyclonal antibody (Product # 51-6900) at a dilution of 1:200 in 3% BSA in PBS for 1 hr at RT, and then incubated with Invitrogen AlexaFluor 647 Plus goat anti-rabbit IgG secondary antibody (Product # A32733) at a dilution of 1:1000 for 1 hr at RT. Nuclei were stained with Hoechst 33342 (Product # H3570). The image contains overlay of neuronal PSD-95 (red) and nuclei (blue). Images were taken on a Zeiss LSM 710 confocal microscope at 40X magnification.

Western Blot (10)

Scientific reports

Electrical Stimulation Using Conductive Polymer Polypyrrole Counters Reduced Neurite Outgrowth of Primary Prefrontal Cortical Neurons from NRG1-KO and DISC1-LI Mice.

"516900 was used in western blot to assess the use of the electroactive conductive polymer polypyrrole to counter impaired neurite outgrowth of primary pre-frontal cortical neurons"

Authors: Zhang Q,Esrafilzadeh D,Crook JM,Kapsa R,Stewart EM,Tomaskovic-Crook E,Wallace GG,Huang XF

Species
Mouse

Dilution
1:1000

Year
2017

Translational psychiatry

Deletion of Dtnbp1 in mice impairs threat memory consolidation and is associated with enhanced inhibitory drive in the amygdala.

"51-6900 was used in Western Blotting to elucidate a role for dysbindin-1 in the regulation of amygdalar function."

Authors: Huang CCY,Muszynski KJ,Bolshakov VY,Balu DT

Species
Mouse

Dilution
Not Cited

Year
2019

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

Immunohistochemistry (21)

The Journal of comparative neurology

Delayed appearance of the scaffolding proteins PSD-95 and Homer-1 at the developing rat calyx of Held synapse.

"51-6900 was used in immunohistochemistry to study the development of rat calyx of Held synapse"

Authors: Soria Van Hove JS,Borst JG

Species
Rat

Dilution
1:200

Year
2010

Cell reports

Rescue of Transgenic Alzheimer's Pathophysiology by Polymeric Cellular Prion Protein Antagonists.

"51-6900 was used in Immunohistochemistry to study the use of an orally active cellular prion protein-directed polymeric agent in the treatment of neurodegeneration in Alzheimer's disease and transmissible spongiform encephalopathy."

Authors: Gunther EC,Smith LM,Kostylev MA,Cox TO,Kaufman AC,Lee S,Folta-Stogniew E,Maynard GD,Um JW,Stagi M,Heiss JK,Stoner A,Noble GP,Takahashi H,Haas LT,Schneekloth JS,Merkel J,Teran C,Naderi ZK,Supattapone S,Strittmatter SM

Species
Mouse

Dilution
1:250

Year
2019

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

More applications with references on thermofisher.com

IHC (F) (3)

IHC (Free) (3)

ICC/IF (8)

Misc (5)

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