

PSD-95 Polyclonal Antibody

Product Details

Size	100 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Rat, Mouse, Human, Chicken, Xenopus
Host/Isotope	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

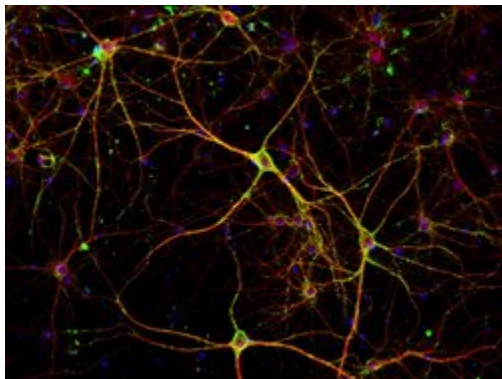
Applications	Tested Dilution	Publications
ELISA (ELISA)	0.1-1.0 µg/mL	-
Immunocytochemistry (ICC)	1:200	8 Publications
Immunofluorescence (IF)	1:200	23 Publications
Immunoprecipitation (IP)	5 µg	-
Western Blot (WB)	1.0 µg/mL	10 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	3 Publications
Immunohistochemistry (IHC)	-	22 Publications
Immunohistochemistry - Free Floating (IHC (Free))	-	3 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.

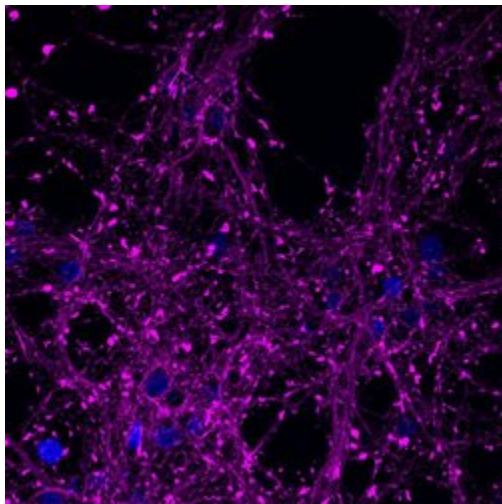
Positive reactivity of this antibody was confirmed on western blots of rat brain homogenates and lysates of PSD-95- transfected HEK293 (human embryonic kidney) cells.

Product Images For PSD-95 Polyclonal Antibody



PSD-95 Antibody (51-6900) in 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 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.

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

Western Blot (10)

Frontiers in cellular neuroscience

Wheel Running Improves Motor Function and Spinal Cord Plasticity in Mice With Genetic Absence of the Corticospinal Tract.

"51-6900 was used in Western Blotting to investigate whether voluntary wheel running could further improve locomotor plasticity in corticospinal tract-deficient mice."

Authors: Zhang W, Yang B, Weng H, Liu T, Shi L, Yu P, So KF, Qu Y, Zhou L

Species
Mouse

Dilution
1:500

Year
2020

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 amygdala 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 (22)

PLoS biology

Astroglial dysfunctions drive aberrant synaptogenesis and social behavioral deficits in mice with neonatal exposure to lengthy general anesthesia.

"51-6900 was used in Immunohistochemistry to report that sevoflurane (Sevo), a commonly used GA in pediatrics, caused compromised astrocyte morphogenesis spatiotemporally correlated to synaptic overgrowth, with reduced synaptic function in developing cortex in a regional-, exposure-length-, and age-specific manner."

Authors: Zhou B, Chen L, Liao P, Huang L, Chen Z, Liao D, Yang L, Wang J, Yu G, Wang L, Zhang J, Zuo Y, Liu J, Jiang R

Species
Mouse

Dilution
1:100

Year
2019

Annals of clinical and translational neurology

Anti-PrP^C antibody rescues cognition and synapses in transgenic alzheimer mice.

"51-6900 was used in Immunohistochemistry-immunofluorescence to evaluate the preclinical therapeutic efficacy of a fully human monoclonal antibody against cellular prion protein."

Authors: Cox TO, Gunther EC, Brody AH, Chiasseu MT, Stoner A, Smith LM, Haas LT, Hammersley J, Rees G, Dosanjh B, Groves M, Gardener M, Dobson C, Vaughan T, Chessell I, Billinton A, Strittmatter SM

Species
Mouse

Dilution
1:250

Year
2019

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

More applications with references on thermofisher.com

IF (23)

ICC (8)

IHC (Free) (3)

IHC (F) (3)

Misc (5)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.