#2507 Store at –20°C

PSD95 Antibody

✓ 100 µl
(10 western blots)

Cell Signaling TECHNOLOGY®

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This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Swiss-Prot Acc. #P78352

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W, IP, IF-F Endogenous	H, M, R	95 kDa	Rabbit**

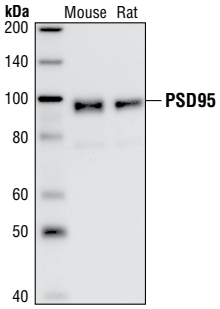
Background: Postsynaptic Density protein 95 (PSD95) is a member of the membrane-associated guanylate kinase (MAGUK) family of proteins. These family members consist of an N-terminal variable segment followed by three PDZ domains, a SH3 domain and an inactive guanylate kinase (GK) domain. PSD95 is a scaffolding protein and is involved in the assembly and function of the postsynaptic density complex (1-2). PSD95 participates in synaptic targeting of AMPA receptors through an indirect manner involving Stargazin and related transmembrane AMPA receptor regulatory proteins (TARPs) (3). The protein is implicated in experience dependent plasticity and plays an indispensable role in learning (4). Mutations in PSD95 are associated with autism (5).

Specificity/Sensitivity: PSD95 Antibody detects endogenous levels of total PSD95 protein.

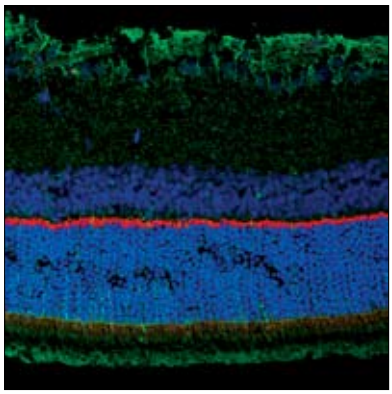
Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues of human PSD95. Antibodies are purified by protein A and peptide affinity chromatography.

Background References:

(1) Cao, J. et al. (2005) *J Cell Biol.* 168, 117–126.
(2) Chetkovich, D.M. et al. (2002) *J. Neurosci.* 22, 6415–6425.
(3) Cai, C. et al. (2006) *J. Biol. Chem.* 281, 4267–4273.
(4) Yao, W.D. et al. (2004) *Neuron* 41, 625–638.
(5) Cline, H. (2005) *Curr. Biol.* 15, R203–R205.



Western blot analysis of extracts from mouse and rat brain using PSD95 Antibody.



Confocal immunofluorescent image of rat retina labeled with PSD95 Antibody (red) and Akt (5G3) Mouse mAb #2966 (green). Blue pseudocolor = DRAQ5® #4084 (fluorescent DNA dye).

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. *Do not aliquot the antibody.*

***Species cross-reactivity is determined by Western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

Western blotting	1:1000
Immunoprecipitation	1:50
Immunofluorescence (IF-F)	1:100

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

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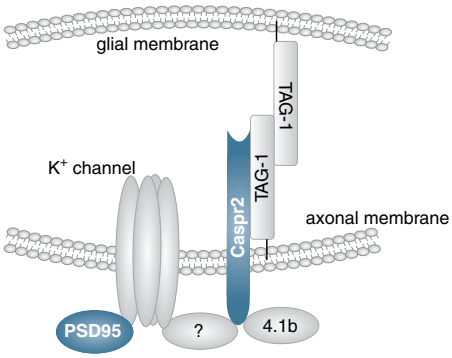

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

Applications Key: **W**—Western **IP**—Immunoprecipitation **IHC**—Immunohistochemistry **ChIP**—Chromatin Immunoprecipitation **IF**—Immunofluorescence **F**—Flow cytometry **E-P**—ELISA-Peptide

Species Cross-Reactivity Key: **H**—human **M**—mouse **R**—rat **Hm**—hamster **Mk**—monkey **Mi**—mink **C**—chicken **Dm**—D. melanogaster **X**—Xenopus **Z**—zebrafish **B**—bovine **Dg**—dog **Pg**—pig **Sc**—S. cerevisiae **Ce**—C. elegans **Hr**—Horse **All**—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.

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