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PSD95 (D27E11) XP[®] Rabbit mAb



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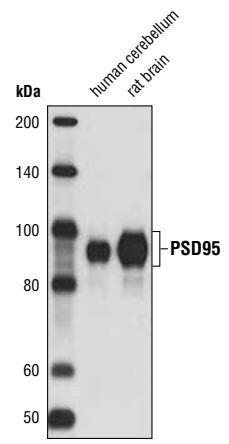
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Applications	Species Cross-Reactivity*	Molecular Wt.	Isotype
W, IF-F Endogenous	H, M, R	95 kDa	Rabbit IgG**

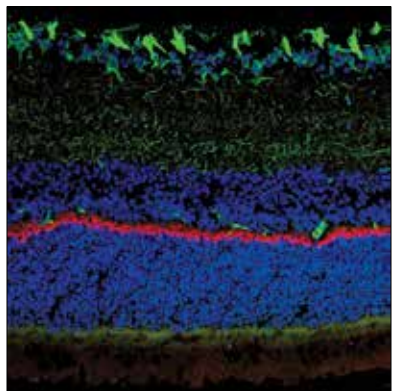
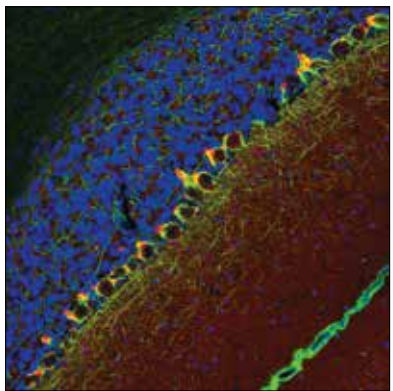
Background: Postsynaptic Density protein 95 (PSD95) is a member of the membrane-associated guanylate kinase (MAGUK) family of proteins. These family members consist of an N-terminal variable segment followed by three PDZ domains, a SH3 domain and an inactive guanylate kinase (GK) domain. PSD95 is a scaffolding protein 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). It 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 (D27E11) XP[®] Rabbit mAb detects endogenous levels of total PSD95 protein.

Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln53 of human PSD95.



Western blot analysis of extracts from human cerebellum and rat brain using PSD95 (D27E11) XP[®] Rabbit mAb.



Confocal immunofluorescent analysis of rat cerebellum (left) and retina (right) using PSD95 (D27E11) XP[®] Rabbit mAb (red) and Neurofilament-L (DA2) Mouse mAb #2835 (green). Blue pseudocolor = DRAQ5[®] #4084 (fluorescent DNA dye).

Entrez-Gene ID #1742
Swiss-Prot Acc. #P78352

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
Immunofluorescence (IF-F) 1:200

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.

Background References:

- (1) Cao, J. et al. (2005) *J. Cell Biol* 168, 117–26.
- (2) Chetkovich, D.M. et al. (2002) *J. Neurosci.* 22, 6415–25.
- (3) Cai, C. et al. (2006) *J. Biol. Chem.* 281, 4267–73.
- (4) Yao, W.D. et al. (2004) *Neuron* 41, 625–38.
- (5) Cline, H. (2005) *Curr. Biol.* 15, R203–5.

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.

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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.