

Product datasheet for 75-028

PSD95 (DLG4) Mouse Monoclonal Antibody [Clone ID: K28/43]

Product data:

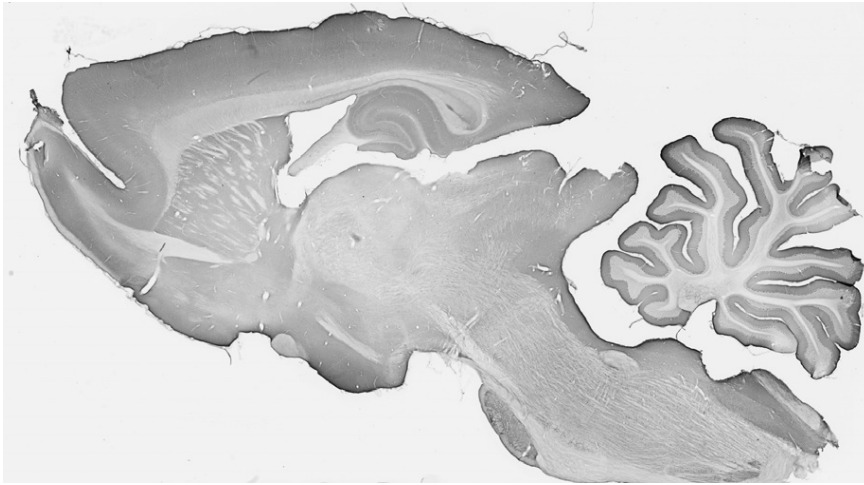
Product Type:	Primary Antibodies
Clone Name:	K28/43
Applications:	IHC, IP, WB
Recommend Dilution:	Immunoblot (IB). Immunohistochemistry (IHC). Immunoprecipitation (IP). Immunogold (EM).
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Fusion protein amino acids 77-299 (PDZ domains 1 and 2) of human PSD-95 (also known as Postsynaptic density protein 95, Disks large homolog 4, Synapse-associated protein 90, DLG4, Dlgh4 and SAP-90, accession number P78352). Rat: 100% identity (223/223 amino acids identical). Mouse: 99% identity (221/223 amino acids identical). 65-80% identity with DLG1/SAP97, DLG2/Chapsyn-110 and DLG3/SAP102
Specificity:	Does not cross-react with DLG1/SAP97, DLG2/Chapsyn-110 or DLG3/SAP102
Formulation:	State: Purified
Gene Name:	discs large MAGUK scaffold protein 4
Database Link:	Entrez Gene 1742 Human
Synonyms:	DLGH4, PSD-95, Disks large homolog 4, SAP90, SAP-90



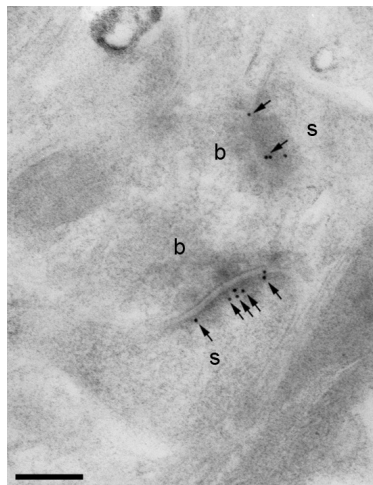
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Note: USERS will cite the UC Davis/NIH NeuroMab Facility in any publication(s) describing the research utilizing the MATERIALS. The suggested acknowledgment statement is as follows: "The monoclonal antibody _ was developed by and/or obtained from the UC Davis/NIH NeuroMab Facility, supported by NIH grant U24NS050606 and maintained by the Department of Neurobiology, Physiology and Behavior, College of Biological Sciences, University of California, Davis, CA 95616."
Also, please include the complete clone number (e.g., N52A/42) and the Antibody Registry identification number (e.g., RRID:AB_2120479) to avoid ambiguity.
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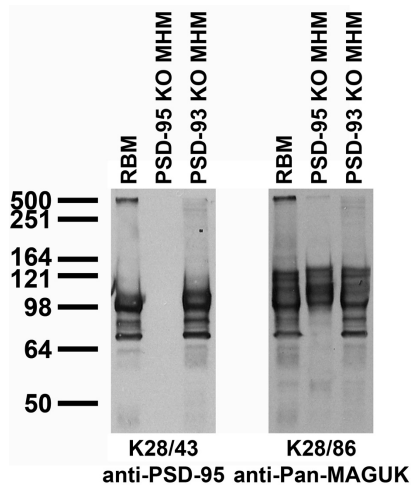
Product images:



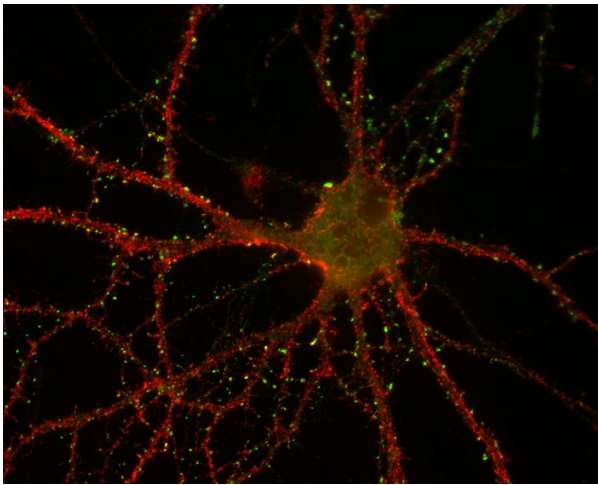
Adult rat brain immunohistochemistry



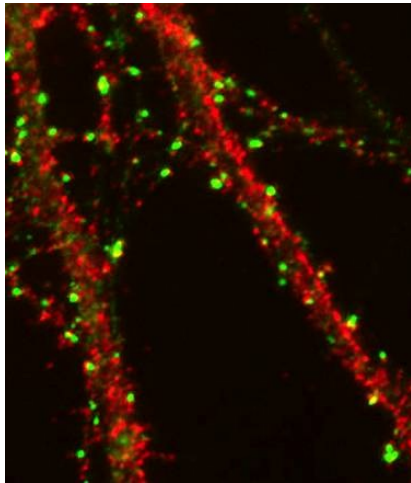
Electron micrograph of K28/43 hippocampal labelling using a post-embedding immunogold method. Immunoparticles (arrows) are seen in the postsynaptic densities of dendritic spines (s) forming asymmetrical synapses with axon terminals (b). Scale bar = 200 nm. Image courtesy of Rafael Lujan (Universidad de Castilla-La Mancha).

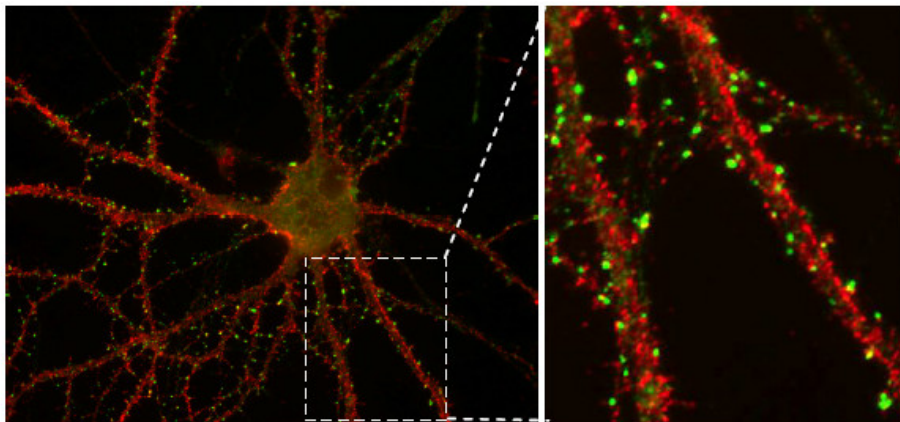


Immunoblot against adult rat brain membranes (RBM) and adult mouse hippocampal membranes (MHM) from PSD-95 and -93 knockout (KO) mice probed with K28/43 (left) or K28/86 (right) TC supe. Mouse samples courtesy of Richard Huganir (Johns Hopkins University, Howard Hughes Medical Institute).



Electron micrograph of K28/43 hippocampal labelling using a post-embedding immunogold method. Immunoparticles (arrows) are seen in the postsynaptic densities of dendritic spines (s) forming asymmetrical synapses with axon terminals (b). Scale bar = 200 nm. Image courtesy of Rafael Lujan (Universidad de Castilla-La Mancha).





immunofluorescence staining of cultured rat hippocampal neurons with K28/43 (green) and K57/1 (red, Kv4.2), right image is higher magnification of left image (dotted lines).