UC Davis/NIH NeuroMab Facility
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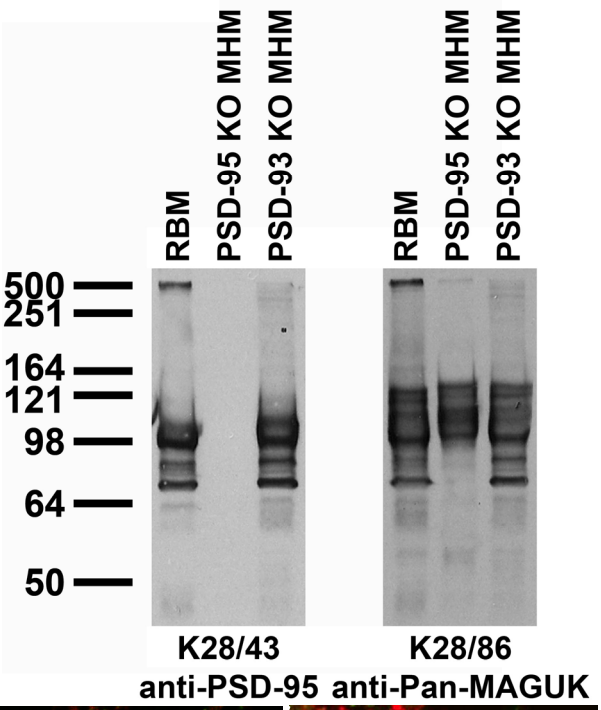
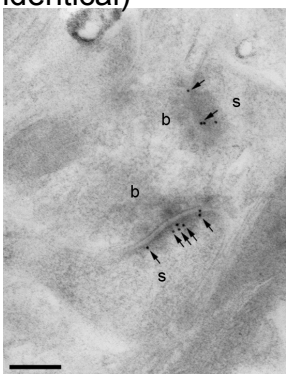
# Anti-PSD-95 MAGUK scaffold protein, NeuroMab clone K28/43




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



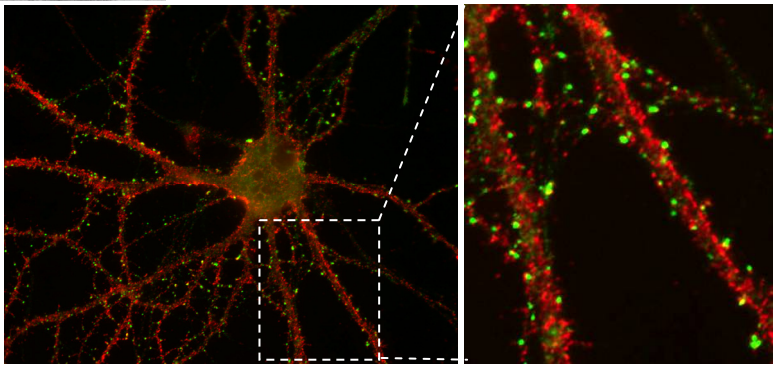

Monoclonal antibody info:
Mouse strain: Balb/C
Myeloma cell: SP2/0
Mouse Ig Isotype: IgG2a

NeuroMab Applications:
Immunoblot, Immunocytochemistry, Immunogold EM and Immunoprecipitation

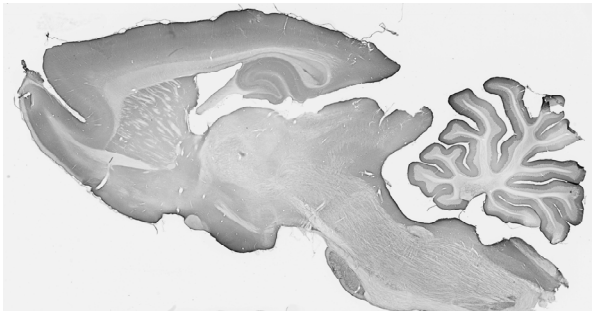
Species Reactivity: human, rat, mouse

Does not cross-react with DLG1/SAP97, DLG2/Chapsyn-110 or DLG3/SAP102

MW: 95-110 kDa (varies with cell background due to phosphorylation)



Top left: 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).



Top right: 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).

Middle: 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).

Bottom: adult rat brain immunohistochemistry