

Anti-PSD-95 [K28/43] Standard Size Ab02108-8.4

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors. Variable region sequences were determined by Dr. James Trimmer at the University of California, Davis, as supported by National Institutes of Health BRAIN Initiative award U24 NS109113.

This chimeric rat antibody was made using the variable domain sequences of the original Mouse IgG2a format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Rat IgG2b, [Fc Silent™](#), Kappa

Clone Number: K28/43

Alternative Name(s) of Target: K28/43R; pSD95; Postsynaptic density protein 95; Disks large homolog 4; Synapse-associated protein 90; DLG4; Dlg4; SAP-90

UniProt Accession Number of Target Protein: P78352

Published Application(s): IB, IP, WB, IF

Published Species Reactivity: Rat, Human, Mouse

Immunogen: This antibody was raised by immunising BALB/c mice with a fusion protein consisting of amino acids 77-299 (PDZ domains 1 and 2) of human PSD-95.

Specificity: This antibody is specific for PSD-95. It has been shown not to cross-react with DLG1/SAP97, DLG2/Chapsyn-110 or DLG3/SAP102.

Application Notes: This antibody has been used in immunoblot analysis of membranes prepared from adult rat and mouse brain (Andrews et al, 2019; PMID:30667360; Rasband et al, 2019). This antibody has also been used in immunofluorescence staining of cultured rat hippocampal neurons and immunohistochemical analysis of adult rat brain sections (Andrews et al, 2019; PMID:30667360). Additionally, this antibody has been used in western blot analysis of rat spinal dorsal horn neurons (Li et al, 2019) and immunogold electron microscopy (Andrews et al, 2019; PMID:30667360).

Antibody First Published in: Rasband et al. Clustering of neuronal potassium channels is independent of their interaction with PSD-95 *J Cell Biol.* 2002;159(4):663-672 [PMID:12438413](#)

Note on publication: Describes the original generation of this antibody and its initial characterisation.

Product Form

Size:

200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.