

Datasheet for 612-401-E19**PSD95 Antibody****Overview**

Description:	Anti-PSD95 (RABBIT) Antibody - 612-401-E19
Item No.:	612-401-E19
Size:	100 µL
Applications:	WB
Reactivity:	Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	PSD-95 is a very prominent component of the postsynaptic densities of synapses. It contains three PDZ domains which play key roles in its interactions with other proteins in the synapse. It has been proposed that these PDZ domains organize glutamate receptors and their associated signaling proteins and determine the size and strength of synapses. Recent work suggests that interaction of the NMDAR with PSD-95 via these PDZ domains can be regulated by phosphorylation. Anti-PSD-95 Antibody is ideal for investigators involved in Cell Signaling, Neuroscience, Signal Transduction research.
Synonyms:	Disks large homolog 4, Postsynaptic density protein 95, Synapse-associated protein 90, SAP-90, SAP90
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Dlg4
Reactivity:	Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-PSD-95 Antibody was produced in rabbit by repeated immunizations with synthetic peptide corresponding to amino acid residues from the N-terminal region conjugated to KLH.

Purity/Specificity:	Anti-PSD-95 antibodies are affinity purified from monospecific antiserum by immunoaffinity purification. This antibody is directed against PSD 95 proteins. Reactivity is expected from the following species based on 100% sequence homology: bovine, human, mouse, non-human primates and zebra fish.
Relevant Links:	• UniProtKB - P31016 • GeneID - 29495 • UniProtKB - P31016.1

Application Details

Tested Applications:	WB
Application Note:	Anti-PSD 95 (Rabbit) antibody is tested for use in Western Blotting. Expect a band of approximately 95 kDa in size corresponding to PSD-95 protein in the appropriate cell lysate or extract. Researchers should determine optimal titers for applications that are not stated below.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	1:1000

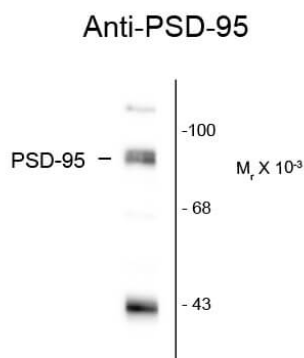
Formulation

Physical State:	Liquid
Concentration:	titrated reagent Sufficient to run approximately 10 miniblots
Buffer:	0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5
Stabilizer:	0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western blot of rat hippocampal lysate showing specific immunolabeling of the ~95k PSD-95 protein.

Western Blot

Western Blot of Rabbit anti-PSD-95 antibody. Lane 1: rat hippocampal (Hipp) lysate. Lane 2: none. Load: 10 µg per lane. Primary antibody: PSD-95 antibody at 1:1,000 for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 95 kDa for PSD-95. Other band(s): PSD-95 splice variants and isoforms.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.