For Research Use Only

PSD95-Specific Polyclonal antibody

Catalog Number:20665-1-AP Featured Product 389 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
20665-1-AP

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_001365

GeneID (NCBI):
1742

UNIPROT ID:
P78352

Full Name:
discs, large homolog 4 (Drosophila)

Calculated MW:
85 kDa

Observed MW:
90-95 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:5000-1:50000
IHC: 1:200-1:800
IF-P: 1:200-1:800
FC (Intra): 0.40 ug per 10^6 cells in a 100 µl suspension

Applications

Tested Applications:
WB, IHC, IF-P, FC (Intra), ELISA

Cited Applications:
WB, IHC, IF, IP, CoIP

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat, canine, chicken, zebrafish, hamster

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse brain tissue, HeLa cells, rat brain tissue

IHC : mouse brain tissue,

IF-P : mouse brain tissue,

FC (Intra) : Neuro-2a cells,

Background Information

PSD-95 (postsynaptic density protein 95) also known as SAP-90 (synapse-associated protein 90) is a protein that in humans is encoded by the DLG4 (disks large homolog 4) gene. PSD-95 is a scaffolding protein of the MAGUK protein family, and engages in several vital protein-protein interactions in the brain with its PDZ domains. It has been suggested that PSD-95 is composed of two supramodules, one of which is the PDZ1-2 tandem domain. It plays an important role in synaptic plasticity and the stabilization of synaptic changes during long-term potentiation. Observed MW of PSD95 is 90-95 kDa due to phosphorylation (PMID: 20682303).

Notable Publications

Author	Pubmed ID	Journal	Application
Pengcheng Ma	36179027	Sci Adv	WB
Xiaoyin Liu	36246376	Front Bioeng Biotechnol	IF
Rui Dang	30266599	Neuropharmacology	WB,IF

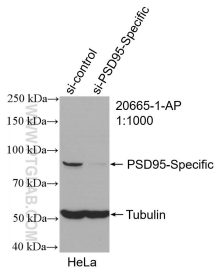
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

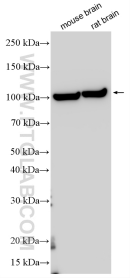
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

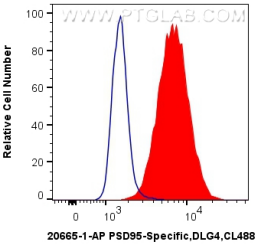
Selected Validation Data



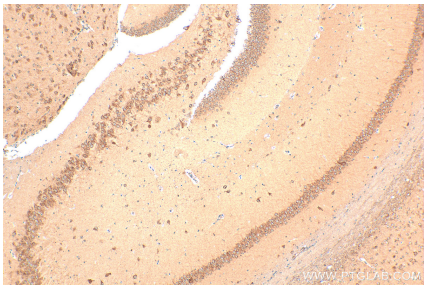
WB result of PSD95-Specific,DLG4 antibody (20665-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PSD95-Specific,DLG4 transfected HeLa cells.



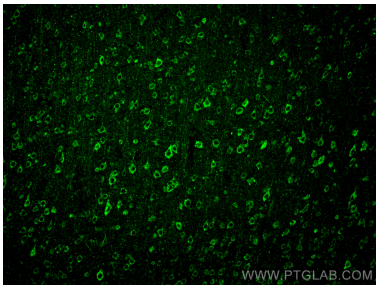
Various lysates were subjected to SDS PAGE followed by western blot with 20665-1-AP (PSD95-Specific antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.



1X10^6 Neuro-2a cells were intracellularly stained with 0.4 ug Anti-Human PSD95-Specific,DLG4 (20665-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 20665-1-AP (PSD95-Specific,DLG4 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using PSD95-Specific,DLG4 antibody (20665-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).