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PSD95 Rabbit mAb

Catalog No.: A28903 Recombinant

Basic Information

Observed MW
95 kDa/75 kDa

Calculated MW
80 kDa/85 kDa

Category
Primary antibody

Applications
WB,IF-F,IHC-P,ELISA

Cross-Reactivity
Human, Mouse, Rat

CloneNo number
ARC3431

Background

Enables ionotropic glutamate receptor binding activity and scaffold protein binding activity. Involved in several processes, including dendritic spine morphogenesis; locomotory exploration behavior; and neurotransmitter receptor localization to postsynaptic specialization membrane. Acts upstream of or within protein localization to synapse; regulation of long-term neuronal synaptic plasticity; and synaptic vesicle maturation. Located in several cellular components, including axon; postsynaptic density; and synaptic vesicle. Part of AMPA glutamate receptor complex. Is active in glutamatergic synapse. Colocalizes with postsynaptic membrane. Is expressed in central nervous system; dorsal root ganglion; and sensory organ. Used to study Williams-Beuren syndrome and autism spectrum disorder. Human ortholog(s) of this gene implicated in autosomal dominant intellectual developmental disorder 62. Orthologous to human DLG4 (discs large MAGUK scaffold protein 4).

Recommended Dilutions

WB	1:2000 - 1:10000
IF-F	1:100 - 1:400
IHC-P	1:100 - 1:400
ELISA	Recommended starting concentration is 1 μg/mL.Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10000)□a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
13385

Swiss Prot
Q62108

Immunogen
This information is considered to be commercially sensitive.

Synonyms
Dlgh4; PSD95; SAP90; PSD-95; SAP90A

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% sodium azide,0.05% BSA,50% glycerol,pH7.3.

Contact

400-999-6126

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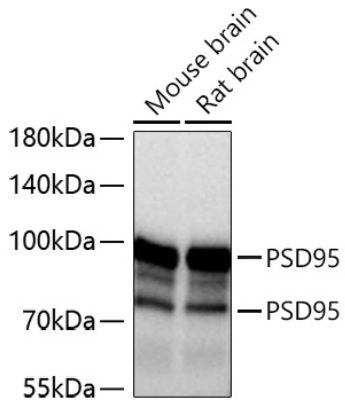
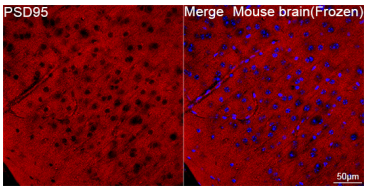
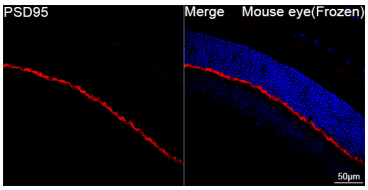
Validation Data



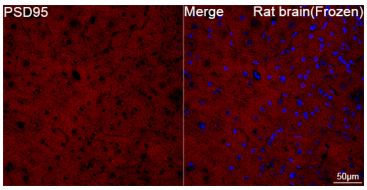
Western blot analysis of various lysates using PSD95 Rabbit mAb (A28903) at 1:2000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1 s.



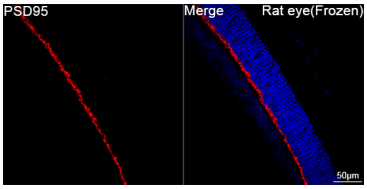
Confocal imaging of frozen sections of Mouse brain tissue using PSD95 Rabbit mAb (A28903, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



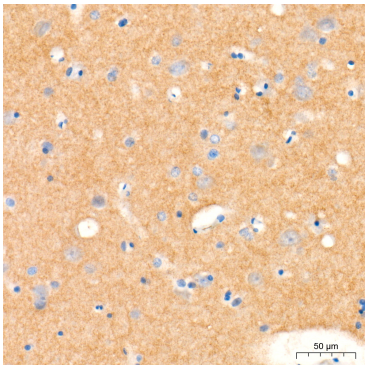
Confocal imaging of frozen sections of Mouse eye tissue using PSD95 Rabbit mAb (A28903, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



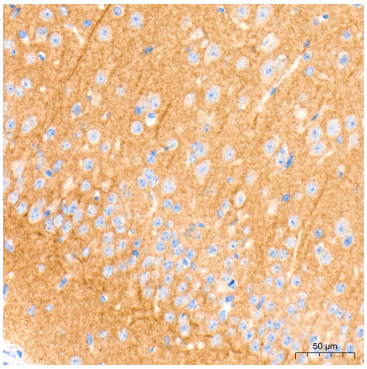
Confocal imaging of frozen sections of Rat brain tissue using PSD95 Rabbit mAb (A28903, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Confocal imaging of frozen sections of Rat eyes tissue using PSD95 Rabbit mAb (A28903, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

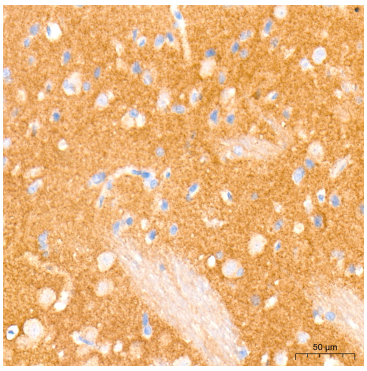


Immunohistochemistry analysis of paraffin-embedded Human brain tissue using PSD95 Rabbit mAb (A28903) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using PSD95 Rabbit mAb (A28903) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

Validation Data



Immunohistochemistry analysis of paraffin-embedded Rat brain tissue using PSD95 Rabbit mAb (A28903) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.