BOSTER BIOLOGICAL TECHNOLOGY
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Anti-FRMPD4 TMEM94 Antibody

Catalog Number: A15565

About FRMPD4

The FERM and PDZ domain containing (FRMPD) protein family consists of four proteins that contain a FERM (Four-point-one, erzin, radixin, moesin) domain and at least one PDZ (PSD-95/Discs large/Zonula-occuldens-1) domain. FRMPD4, also known as Preso, also contains another protein interaction domain termed WW (domain with two conserved Trp residues) at its amino terminus. It was identified through a yeast two-hybrid screen using the PDZ domain of PSD-95 as bait and is highly expressed in multiple regions of the brain and is enriched in the postsynaptic density (PSD) fractions. Overexpression of FRMPD4 in cultured hippocampal neurons significantly increased the linear density of dendritic spines without changing their length and width; conversely, knockdown experiments using RNAi caused a decrease in spine density, indicating FRMPD4 positively regulates dendritic spine density but not morphology. The decreased level of FRMPD4 also resulted in reduced levels of excitatory synaptic transmission, suggesting that FRMPD4 is required for maintenance of excitatory synaptic transmission.

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Overview

Product Name	Anti-FRMPD4 TMEM94 Antibody
Reactive Species	Human
Description	Boster Bio Anti-FRMPD4 Antibody (Catalog # A15565). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	FRMPD4 Antibody is supplied in PBS containing ≤0.09% sodium azide.
Storage Instructions	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q14CM0

Technical Details

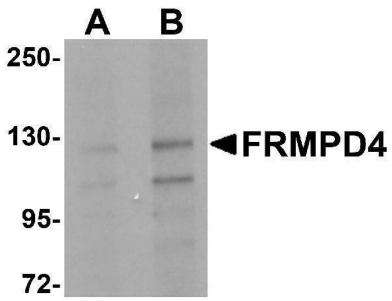
Immunogen	FRMPD4 antibody was raised against an 18 amino acid synthetic peptide from near the center of human FRMPD4. The immunogen is located within amino acids 620 - 670 of FRMPD4.

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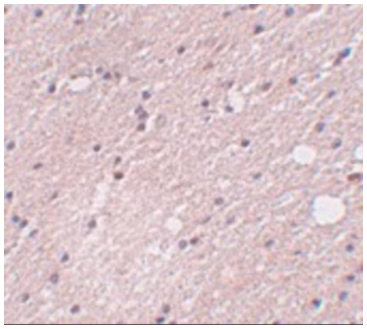
Predicted Reactive Species	Mouse
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	FRMPD4 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	FRMPD4 antibody can be used for detection of FRMPD4 by Western blot at 1 - 2 ug/mL. Antibody can also be used for immunohistochemistry starting at 5 ug/mL. For immunofluorescence start at 20 ug/mL. Antibody validated: Western Blot in human samples; Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

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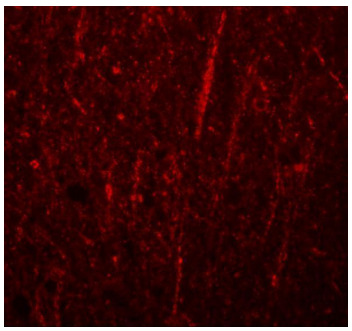
Anti-FRMPD4 TMEM94 Antibody (A15565) Images



Western blot analysis of FRMPD4 in SK-N-SH cell lysate with FRMPD4 antibody at (A) 1 and (B) 2 ug/mL.



Immunohistochemistry of FRMPD4 in human brain tissue with FRMPD4 antibody at 5 ug/mL.



Immunofluorescence of FRMPD4 in human brain tissue with FRMPD4 antibody at 20 ug/mL.

Anti-FRMPD4 TMEM94 Antibody

For Research Use Only. Not for use in diagnostic procedures.