

## Anti-FRMPD4 TMEM94 Antibody

Catalog Number: A15565

### About KIAA0195

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-occludens-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.

### Overview

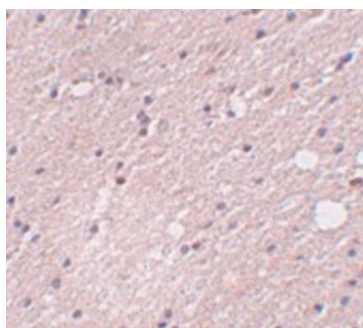
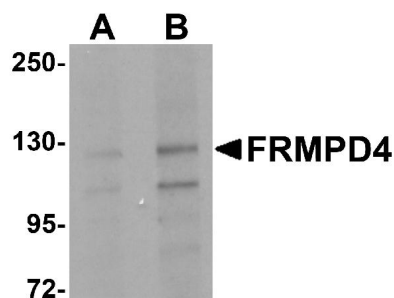
Product Name	Anti-FRMPD4 TMEM94 Antibody
Reactive Species	Human
Description	Boster Bio Anti-FRMPD4 TMEM94 Antibody (Catalog # A15565). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal Clone: SK7
Formulation	FRMPD4 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	FRMPD4 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q12767

### Technical Details

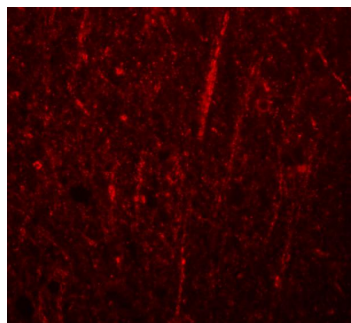
Immunogen	FRMPD4 antibody was raised against an 18 amino acid synthetic peptide from near the center of human FRMPD4. The immunogen is located within amino acids 620 - 670 of FRMPD4.
Predicted Reactive Species	Mouse
Cross Reactivity	TYW2 antibody is predicted to not cross-react with other TYW protein family members. At least two isoforms of TYW2 are known to exist; this antibody will detect both isoforms
Isotype	IgG
Form	Liquid

Concentration	1 mg/mL
Purification	FRMPD4 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>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.</p> <p>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.</p>

## Anti-FRMPD4 TMEM94 Antibody (A15565) Images



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.

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