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Datasheet for ABIN6991214
anti-FRMPD4 antibody (AA 620-670)

Overview

Quantity:	0.1 mg
Target:	FRMPD4
Binding Specificity:	AA 620-670
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FRMPD4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF)

Product 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.
Isotype:	IgG
Purification:	FRMPD4 Antibody is affinity chromatography purified via peptide column.

Target Details

Target:	FRMPD4
Alternative Name:	FRMPD4 (FRMPD4 Products)
Background:	FRMPD4 Antibody: 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

Target Details

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.

Gene ID: 9772

UniProt: [Q12767](#)

Application Details

Application Notes: FRMPD4 antibody can be used for detection of FRMPD4 by Western blot at 1 - 2 μ g/mL. Antibody can also be used for immunohistochemistry starting at 5 μ g/mL. For immunofluorescence start at 20 μ g/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.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

Buffer: FRMPD4 Antibody is supplied in PBS containing 0.02 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C, 4 °C

Storage Comment: FRMPD4 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.

Handling

As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.