

Datasheet for ABIN499861
anti-FRMPD4 antibody (Center)



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2 Images

Overview

Quantity:	0.1 mg
Target:	FRMPD4
Binding Specificity:	Center
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FRMPD4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	FRMPD4 antibody was raised against an 18 amino acid peptide from near the center of human FRMPD4.
Isotype:	IgG
Purification:	Affinity chromatography purified via peptide column

Target Details

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

Target Details

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. Synonyms: FERM and PDZ domain-containing protein 4, KIAA0316, PDZ domain-containing protein 10, PDZD10, PDZK10, PSD-95-interacting regulator of spine morphogenesis, Preso

Gene ID: 9758

NCBI Accession: [NP_055543](#)

UniProt: [Q14CM0](#)

Application Details

Application Notes: ELISA. Western Blot: 1 - 2 µg/mL. Immunohistochemistry.
Other applications not tested.
Optimal dilutions are dependent on conditions and should be determined by the user.

Restrictions: For Research Use only

Handling

Concentration: 1.0 mg/mL

Buffer: 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.

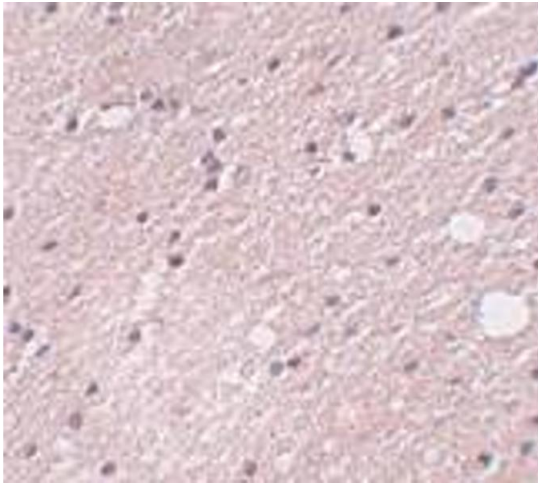
Handling Advice: Avoid repeated freezing and thawing.

Storage: -20 °C

Handling

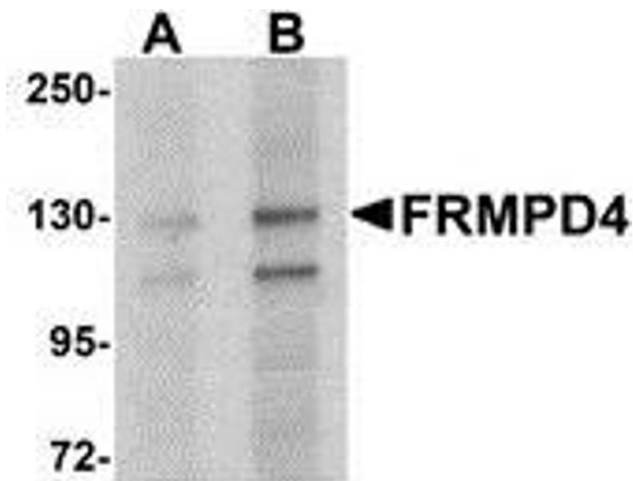
Storage Comment: Store the antibody (in aliquots) at -20 °C.

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of FRMPD4 in human brain tissue with FRMPD4 antibody at 5 µg/ml.



Western Blotting

Image 2. Western blot analysis of FRMPD4 in SK-N-SH cell lysate with AP30349PU-N FRMPD4 antibody at (A) 1 and (B) 2 µg/ml.