

FRMPD2 Rabbit pAb

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Catalog # AP59115

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q68DX3
Reactivity	Rat, Mouse
Predicted	Pig, Human, Rabbit, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	144282
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PDZK4
Epitope Specificity	1001-1100/1309
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm (Potential). Basolateral cell membrane. Cell junction, tight junction. Note=Colocalizes with CTNNB1, CDH1 and PKP4 at the basolateral membrane. Colocalizes with TJP1 at tight junctions. Its recruitment to cell-cell contacts requires CDH1.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a peripheral membrane protein and is located in a region of chromosome 10q that contains a segmental duplication. This copy of the gene is full-length and is in the telomeric duplicated region. Two other more centromerically proximal copies of the gene are partial and may represent pseudogenes. This full-length gene appears to function in the establishment and maintenance of cell polarization. The protein is recruited to cell-cell junctions in an E-cadherin-dependent manner, and is selectively localized at the basolateral membrane in polarized epithelial cells. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2009]

Additional Information

Gene ID	143162
Other Names	FERM and PDZ domain-containing protein 2, PDZ domain-containing protein 4, PDZ domain-containing protein 5C, FRMPD2, PDZD5C, PDZK4, PDZK5C
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

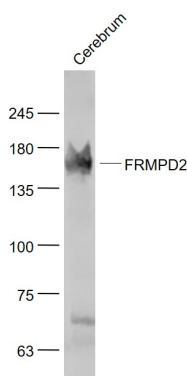
Protein Information

Name	FRMPD2
Synonyms	PDZD5C, PDZK4, PDZK5C
Function	Functions as a scaffold protein and likely plays a role in N- methyl-D-aspartic acid receptor (NMDAR)-mediated synaptic excitatory transmission (By similarity). May be involved in synapse formation in cone photoreceptor cells (By similarity). May play a role in the regulation of tight junction formation (PubMed: 19706687). Binds phosphatidylinositol 3,4-bisphosphate (PtdIns(3,4)P2) (PubMed: 19706687). May play a role in the regulation of NOD2-mediated NF-kappa-B activation in immune response (PubMed: 23213202).
Cellular Location	Cytoplasm. Basolateral cell membrane Cell junction, tight junction Postsynaptic density {ECO:0000250 UniProtKB:A0A140LI67} Note=Colocalizes with CTNNB1, CDH1 and PKP4 at the basolateral membrane. Colocalizes with TJP1 at tight junctions. Its recruitment to cell-cell contacts requires CDH1. Colocalizes with NOD2 to the basolateral membrane in intestinal epithelial cells (PubMed:23213202)
Tissue Location	Expressed in epithelial cells.

Background

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Images



Sample:

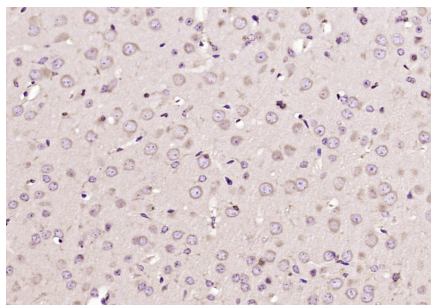
Cerebrum (Mouse) Lysate at 40 ug

Primary: Anti- FRMPD2 (AP59115) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 144 kD

Observed band size: 144 kD



Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (FRMPD2) Polyclonal Antibody, Unconjugated (AP59115) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.