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FRMD8 Rabbit pAb

Catalog # AP97701

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q9BZ67
Other Accession	Q9BZ67
Reactivity	Rat
Predicted	Pig, Human, Mouse, Dog, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	51218
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FRMD8
Epitope Specificity	65-170/464
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 FERM domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	FERM domains are roughly 150 amino acids in length and are found in a number of cytoskeletal-associated proteins such as Ezrin, Radixin, Moesin and 4.1 (erythrocyte membrane protein band 4.1), where they provide a link between cytoskeletal signals and membrane dynamics. FRMD8 (FERM domain-containing protein 8), also known as FKSG44, is a 464 amino acid protein containing one FERM domain. Existing as two alternatively spliced isoforms, the gene encoding FRMD8 maps to human chromosome 11q13.1. With approximately 135 million base pairs and 1,400 genes, chromosome 11 makes up around 4% of human genomic DNA and is considered a gene and disease association dense chromosome. Wilms' tumors, WAGR syndrome and Denys-Drash syndrome are associated with mutations of the WT1 gene. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are also associated with defects in chromosome 11.

Additional Information

Gene ID	83786
Other Names	FKSG44; iTAP; 1200004M23Rik; 2310035N23Rik; 4931429L16Rik; RGD1310323; FRMD8_HUMAN; FRMD8; Band4.1 inhibitor LRP interactor (Bili); iRhom tail-associated protein (iTAP); FRMD8_MOUSE; FRMD8_RAT; FERM domain containing 8; iRhom Tail-Associated Protein
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000

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	FRMD8
Function	Promotes the cell surface stability of iRhom1/RHBDF1 and iRhom2/RHBDF2 and prevents their degradation via the endolysosomal pathway. By acting on iRhoms, involved in ADAM17-mediated shedding of TNF, amphiregulin/AREG, HBEGF and TGFA from the cell surface (PubMed:29897333, PubMed:29897336). Negatively regulates Wnt signaling, possibly by antagonizing the recruitment of AXIN1 to LRP6 (PubMed:19572019).
Cellular Location	Cytoplasm, cytosol. Cell membrane
Tissue Location	Widely expressed, with high expression in heart and spleen.

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