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Annexin A13 Rabbit pAb

Catalog # AP97720

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P27216
Other Accession	P27216
Reactivity	Human
Predicted	Rat, Mouse, Rabbit, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35415
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Annexin A13
Epitope Specificity	241-316/316
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the annexin family. Contains 4 annexin repeats.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The Annexins constitute a family of structurally-related, relatively abundant proteins that exhibit Ca2+-dependent binding to phospholipids. Annexins function in multiple aspects of cell biology including regulation of membrane trafficking, transmembrane channel activity, inhibition of phospholipase A2, inhibition of coagulation and mediation of cell-matrix interactions. Annexin A13 is considered the original progenitor of the 12 members of vertebrate Annexins. The expression of Annexin A13 is highly tissue-specific, being expressed only in intestinal and kidney epithelial cells. This expression is associated with a highly differentiated intracellular transport function. Two alternative splicing isoforms of Annexin A13 exist, both of which bind to rafts.

Additional Information

Gene ID	312
Other Names	ANX13; ISA; 1810034H17Rik; ANX13_HUMAN; ANXA13; Annexin XIII; Annexin-13; Intestine-specific annexin (ISA); ANX13_MOUSE; annexin A13
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	ANXA13
Synonyms	ANX13
Function	[Isoform A]: Binds to membranes enriched in phosphatidylserine or phosphatidylglycerol in a calcium-dependent manner (PubMed:27676605, PubMed:30610115). Half-maximal membrane binding requires about 60 uM calcium. Does not bind to membranes that lack phospholipids with an acidic headgroup (PubMed:27676605).
Cellular Location	Apical cell membrane. Cell membrane; Lipid-anchor. Cytoplasmic vesicle {ECO:0000250|UniProtKB:Q99JG3}. Note=Myristoylation anchors the protein to the membrane, but the protein also displays calcium-dependent, reversible binding to lipid membranes (PubMed:30610115). Associated with the plasma membrane of undifferentiated, proliferating crypt epithelial cells as well as differentiated villus enterocytes (PubMed:1530946).
Tissue Location	Detected in epithelial cells in colon and jejunum (at protein level). Detected in epithelial cells in jejunum

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