10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PERP Recombinant Rabbit mAb

Catalog # AP99153

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q96FX8
Other Accession	Q96FX8
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Recombinant
Calculated MW	21386
Physical State	Liquid
Immunogen	A synthesized peptide derived from human PERP
Epitope Specificity	165-193
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	10mM phosphate buffered saline(pH 7.4) with 150mM sodium chloride, 0.05% BSA, 0.02% Proclin300 and 50% glycerol.
SIMILARITY	Belongs to the TMEM47 family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Component of intercellular desmosome junctions.Plays a role in stratified epithelial integrity and cell-cell adhesion by promoting desmosome assembly.Thereby plays a role in barrier function of the skin against infection.

Additional Information

Gene ID	64065
Other Names	EKVP7; KCP1; KRTCAP1; OLMS2; PIGPC1; THW; dJ496H19.1; 1110017A08Rik; Q3T0F1_BOVIN; PERP; Keratinocyte-associated protein 1; PERP_HUMAN; Keratinocyte-associated protein 1 (KCP-1); P53-induced protein PIGPC1; Transmembrane protein THW; PERP_MOUSE; MZB1_RAT; Mzb1; Plasma cell-induced resident endoplasmic reticulum protein (Plasma cell-induced resident ER protein | pERp1); Proapoptotic caspase adapter protein; Pacap; p53 apoptosis effector related to PMP22; PERP, TP53 apoptosis effector; keratinocyte associated protein 1
Dilution	WB=1:500-2000,ICC/IF=1:50-200,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	PERP (HGNC:17637)
Function	Component of intercellular desmosome junctions (By similarity). Plays a role in stratified epithelial integrity and cell- cell adhesion by promoting desmosome assembly (By similarity). Thereby plays a role in barrier function of the skin against infection (By similarity). Plays a role in mammary epithelial tissue homeostasis and remodeling during and after pregnancy, potentially via its involvement in desmosome cell-cell junctions (By similarity). Required for tooth enamel development via facilitating desmosome-mediated ameloblast adhesion to the stratum intermedium during the transitional stage of amelogenesis (By similarity). May also play a role in downstream transcriptional regulation of other genes involved in amelogenesis such as AMBN, ENAM, MMP20 and KLK4 (By similarity). Plays a role as an effector in the TP53-dependent apoptotic pathway (By similarity). Positively regulates apoptosis in T-helper 17 (Th17) cell populations via caspase-dependent signaling (By similarity). Promotes neutrophil transepithelial migration in response to chemoattractants such as hepoxilin A3 (HXA3), N-Formylmethionyl-leucyl-phenylalanine (fMLP) and CXCL8/IL-8 (PubMed:25486861). Required for neutrophil transepithelial migration in response to S.typhimurium infection (PubMed:25486861). May act as a positive regulator of endothelial cell apoptosis in response to blood flow-derived shear stress (By similarity).
Cellular Location	Cell junction, desmosome {ECO:0000250|UniProtKB:Q9JK95}. Cell membrane; Multi-pass membrane protein. Cytoplasm. Note=Associated with desmosomes (By similarity). Colocalizes with KRT14 in the cell membrane (PubMed:31898316). Clusters in a punctate pattern throughout the epithelial cytoplasm, in response to S.typhimurium infection (PubMed:25486861). {ECO:0000250|UniProtKB:Q9JK95, ECO:0000269|PubMed:25486861, ECO:0000269|PubMed:31898316}
Tissue Location	Expressed in skin, heart, placental, liver, pancreas, keratinocytes and dermal fibroblasts. May translocate to the intestinal apical epithelial cell surface via sipA and sctB1/sipC- promoted exocytic translocation following infection by S. Typhimurium (PubMed:25486861, PubMed:27078059).

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