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PERP Antibody

Rabbit mAb
Catalog # AP91994

Product Information

Application	WB, IF, ICC
Primary Accession	Q96FX8
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	KCP1; KRTCAP1; Perp; PIGPC1; THW;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	21386

Additional Information

Dilution	WB 1:500~1:2000 ICC/IF 1:50~1:200
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human PERP
Description	Component of intercellular desmosome junctions. Plays a role in stratified epithelial integrity and cell-cell adhesion by promoting desmosome assembly. Plays a role as an effector in the TP53-dependent apoptotic pathway.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

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).

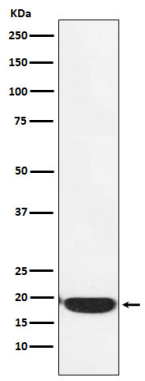
Cellular Location

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).

Images



Western blot analysis of PERP expression in A431 cell lysate.