

PERP Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP14508b

Product Information

Application	WB, IHC-P, E
Primary Accession	Q96FX8
Other Accession	NP_071404.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB34260
Calculated MW	21386
Antigen Region	162-191

Additional Information

Gene ID	64065
Other Names	p53 apoptosis effector related to PMP-22, Keratinocyte-associated protein 1, KCP-1, P53-induced protein PIGPC1, Transmembrane protein THW, PERP, KCP1, KRTCAP1, PIGPC1, THW
Target/Specificity	This PERP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 162-191 amino acids from the C-terminal region of human PERP.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PERP Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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 heparin 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).

Background

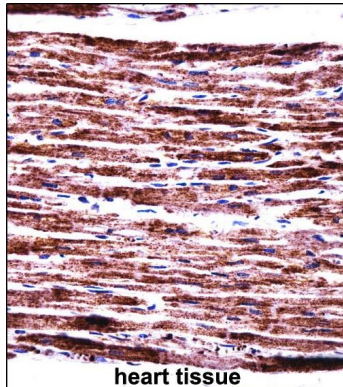
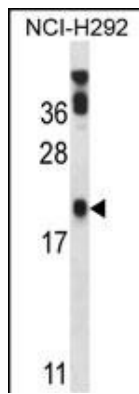
Component of intercellular desmosome junctions. Plays a role in stratified epithelial integrity and cell-cell adhesion by promoting desmosome assembly. Plays a role as an effector in the TP53-dependent apoptotic pathway (By similarity).

References

- Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
 Liu, C.Y., et al. Carcinogenesis 31(7):1259-1263(2010)
 Yarden, R.I., et al. Mol. Carcinog. 49(6):545-555(2010)
 Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)
 Beaudry, V.G., et al. Am. J. Med. Genet. A 149A (9), 1952-1957 (2009) :

Images

PERP Antibody (C-term) (Cat. #AP14508b) western blot analysis in NCI-H292 cell line lysates (35ug/lane).This demonstrates the PERP antibody detected the PERP protein (arrow).



PERP Antibody (C-term)
(AP14508b) immunohistochemistry analysis in formalin fixed and paraffin embedded human heart tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of PERP Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

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