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KD-Validated Anti-PERP Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1697

Specification

KD-Validated Anti-PERP Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC**
Primary Accession	Q96FX8
Reactivity	**Human**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 21 kDa , observed , 21 kDa KDa**
Gene Name	**PERP**
Aliases	**P53 Apoptosis Effector Related To PMP22; KRTCAP1; PIGPC1; KCP1; THW; DJ496H19.1; P53 Apoptosis Effector Related To PMP-22; Keratinocyte-Associated Protein 1; PERP, TP53 Apoptosis Effector; P53-Induced Protein PIGPC1; Transmembrane Protein THW; KCP-1; Keratinocytes Associated Protein 1; Keratinocyte Associated Protein 1; 1110017A08Rik; EKVP7; OLMS2**
Immunogen	**A synthesized peptide derived from human PERP**

KD-Validated Anti-PERP Rabbit Monoclonal Antibody - Additional Information

Gene ID	**64065**

Other Names
p53 apoptosis effector related to PMP-22 {ECO:0000312|HGNC:HGNC:17637}, Keratinocyte-associated protein 1, KCP-1, P53-induced protein PIGPC1 {ECO:0000303|Ref.3}, Transmembrane protein THW, PERP (HGNC:17637)

KD-Validated Anti-PERP Rabbit Monoclonal Antibody - 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).

KD-Validated Anti-PERP Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-PERP Rabbit Monoclonal Antibody - Images

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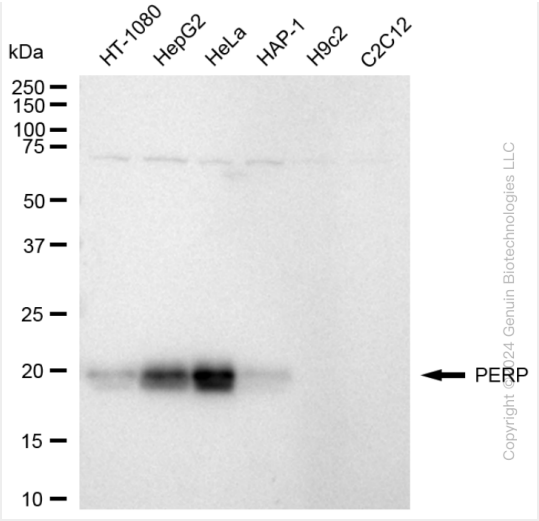
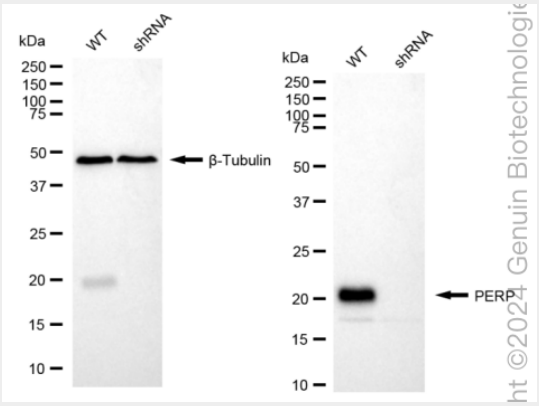
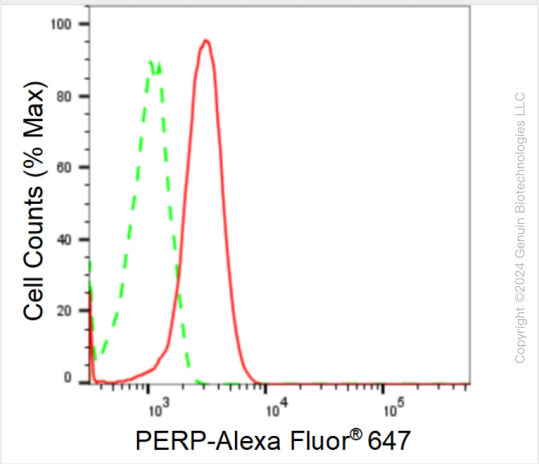


Western blotting analysis using anti-PERP antibody (Cat#AGI1697). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-PERP antibody (Cat#AGI1697, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-PERP antibody (Cat#AGI1697). PERP expression in wild type (WT) and PERP shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-PERP antibody (Cat#AGI1697, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of PERP expression in Hela cells using anti-PERP antibody (Cat#AGI1697, 1:2,000). Green, isotype control; red, PERP.