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

# KD-Validated Anti-PERP Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1697

## Product Information

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| **Application** | WB, FC |
| **Primary Accession** | Q96FX8 |
| **Reactivity** | Human |
| **Clonality** | Monoclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | 24GB1630 |
| **Calculated MW** | 21386 |
| **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 |

## Additional Information

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| **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) |

## Protein Information

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| **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 |

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| | 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). |