

PERP Antibody
Catalog # ASC10141**Specification**

PERP Antibody - Product Information

Application	WB, ICC
Primary Accession	O9JK95
Other Accession	NP_071404 , 11528520
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	Predicted: 27 kDa

Application Notes	Observed: 30 kDa KDa PERP antibody can be used for detection of PERP by Western blot at 1 µg/mL. Antibody can also be used for immunocytochemistry starting at 10 µg/mL.
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PERP Antibody - Additional Information

Gene ID **64058**

Other Names

PERP Antibody: THW, KCP1, PIGPC1, KRTCAP1, 1110017A08Rik, Krtcap1, p53 apoptosis effector related to PMP-22, Keratinocyte-associated protein 1, KCP-1, PERP, TP53 apoptosis effector

Target/Specificity

Perp;

Reconstitution & Storage

PERP antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Precautions

PERP Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

PERP Antibody - Protein Information

Name Perp

Synonyms Krtcap1

Function

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.

Cellular Location

Cell junction, desmosome. Cell membrane; Multi-pass membrane protein. Note=Associated with desmosomes

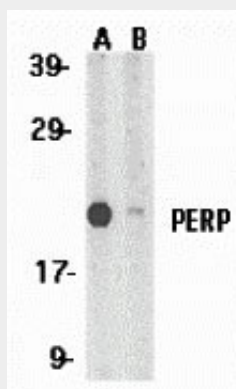
Tissue Location

Expressed in the stratified squamous skin epithelium of the skin and the tongue, but not in simple epithelia (at protein level). Expressed in apoptotic cells

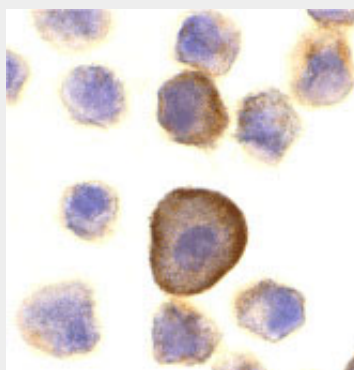
PERP Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PERP Antibody - Images

Western blot analysis of PERP expression in A431 whole cell lysates in the absence (A) and presence (B) of blocking peptide with PERP antibody at 1 µg/mL.



Immunocytochemistry of PERP in A431 cells with PERP antibody at 10 µg/mL.

PERP Antibody - Background

PERP Antibody: The p53 tumor-suppressor gene integrates numerous signals that control cell life and death. Several novel molecules involved in p53 network, including Chk2, p53R2, p53AIP1, Noxa, PIDD, PID/MTA2, MTBP and PERP, were identified and their genes were cloned recently. PERP, also termed PIGPC1 and THW, is a plasma membrane protein. p53 binds to the promoter of PERP and transcriptionally activates PERP gene then the translated PERP protein mediates the p53 induced apoptosis. The expression of PERP causes cell death. PERP is a mediator of p53 induced apoptosis. PERP has sequence similarity to PMP-22/gas3 and is a new member of the PMP-22/gas3 family.

PERP Antibody - References

Matsuoka S, Huang M, and Elledge SJ. Linkage of ATM to cell cycle regulation by the Chk2 protein kinase. *Science* 1998; 282:1893-7.

Tanaka H, Arakawa H, Yamaguchi T, et al. A ribonucleotide reductase gene involved in a p53-dependent cell-cycle checkpoint for DNA damage. *Nature* 2000; 404:42-9.

Oda E, Ohki R, Murasawa H, et al. Noxa, a BH3-only member of the Bcl-2 family and candidate mediator of p53-induced apoptosis. *Science* 2000; 288:1053-8.

Oda K, Arakawa H, Tanaka T, et al. p53AIP1, a potential mediator of p53-dependent apoptosis, and its regulation by Ser-46-phosphorylated p53. *Cell* 2000; 102:849-62.