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PELI1 / Pellino 1 Antibody (C-Terminus)

Rabbit Polyclonal Antibody
Catalog # ALS15671

Specification

PELI1 / Pellino 1 Antibody (C-Terminus) - Product Information

Application	**IHC, ICC, IF, WB**
Primary Accession	Q96FA3
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**46kDa KDa**

PELI1 / Pellino 1 Antibody (C-Terminus) - Additional Information

Gene ID 57162

Other Names
E3 ubiquitin-protein ligase pellino homolog 1, Pellino-1, 6.3.2.-, Pellino-related intracellular-signaling molecule, PELI1, PRISM

Target/Specificity
Human PELI1.

Reconstitution & Storage
Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

Precautions
PELI1 / Pellino 1 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

PELI1 / Pellino 1 Antibody (C-Terminus) - Protein Information

Name PELI1 {ECO:0000303|PubMed:30952868}

Synonyms PRISM

Function
E3 ubiquitin ligase catalyzing the covalent attachment of ubiquitin moieties onto substrate proteins (PubMed:12496252, PubMed:17675297, PubMed:29883609, PubMed:30952868). Involved in the TLR and IL-1 signaling pathways via interaction with the complex containing IRAK kinases and TRAF6 (PubMed:12496252, PubMed:17675297). Acts as a positive regulator of inflammatory response in microglia through activation of NF-kappa-B and MAP

kinase (By similarity). Mediates 'Lys- 63'-linked polyubiquitination of IRAK1 allowing subsequent NF-kappa-B activation (PubMed:12496252, PubMed:17675297). Conjugates 'Lys-63'- linked ubiquitin chains to the adapter protein ASC/PYCARD, which in turn is crucial for NLRP3 inflammasome activation (PubMed:34706239). Mediates 'Lys-48'-linked polyubiquitination of RIPK3 leading to its subsequent proteasome-dependent degradation; preferentially recognizes and mediates the degradation of the 'Thr-182' phosphorylated form of RIPK3 (PubMed:29883609). Negatively regulates necroptosis by reducing RIPK3 expression (PubMed:29883609). Mediates 'Lys-63'-linked ubiquitination of RIPK1 (PubMed:29883609). Following phosphorylation by ATM, catalyzes 'Lys-63'-linked ubiquitination of NBN, promoting DNA repair via homologous recombination (PubMed:30952868). Negatively regulates activation of the metabolic mTORC1 signaling pathway by mediating 'Lys-63'-linked ubiquitination of mTORC1-inhibitory protein TSC1 and thereby promoting TSC1/TSC2 complex stability (PubMed:33215753).

Cellular Location
Chromosome. Note=Localizes to DNA double-strand breaks (DSBs) in response to DNA damage.

Tissue Location
Expressed at high levels in normal skin but decreased in keratinocytes from toxic epidermal necrolysis (TEN) patients (at protein level).

PELI1 / Pellino 1 Antibody (C-Terminus) - 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

PELI1 / Pellino 1 Antibody (C-Terminus) - Images

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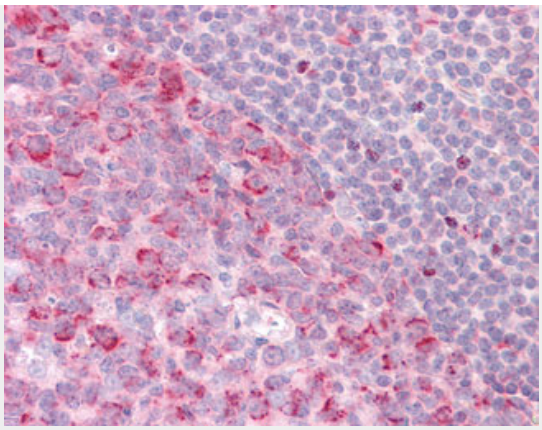
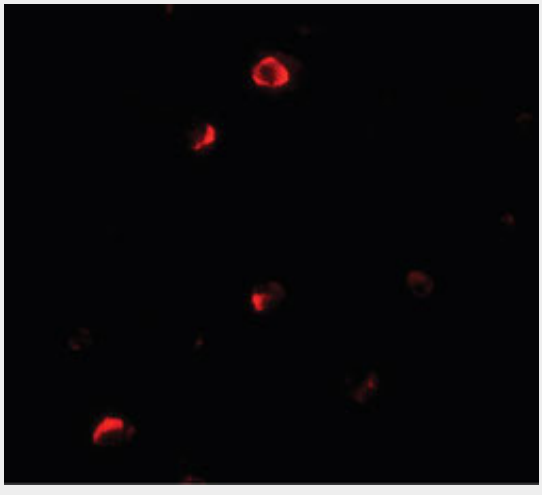


Anti-PELI1 / Pellino 1 antibody IHC staining of human tonsil.

Immunocytochemistry of Pellino in HepG2 cells with Pellino 1 antibody at 2.5 ug/ml.



Immunofluorescence of Pellino 1 in HepG2 cells with Pellino 1 antibody at 20 ug/ml.

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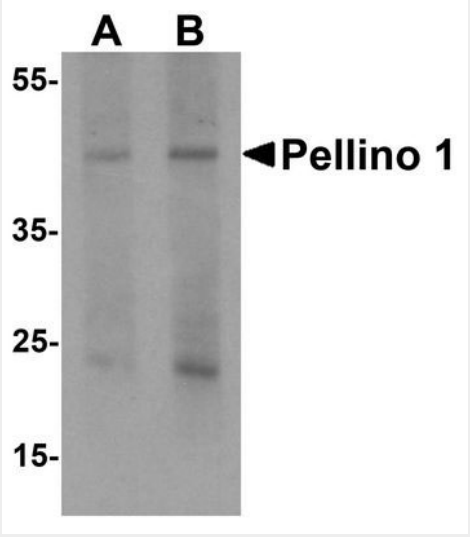

Western blot analysis of Pellino 1 in human liver tissue lysate with Pellino 1 antibody at (A) 1...

PELI1 / Pellino 1 Antibody (C-Terminus) - Background

E3 ubiquitin ligase catalyzing the covalent attachment of ubiquitin moieties onto substrate proteins. Involved in the TLR and IL-1 signaling pathways via interaction with the complex containing IRAK kinases and TRAF6. Mediates 'Lys-63'-linked polyubiquitination of IRAK1 allowing subsequent NF-kappa-B activation.

PELI1 / Pellino 1 Antibody (C-Terminus) - References

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Ota T.,et al.Nat. Genet. 36:40-45(2004).
Jiang Z.,et al.J. Biol. Chem. 278:10952-10956(2003).