

PELI1 / Pellino 1 Antibody (aa121-135)
Rabbit Polyclonal Antibody
Catalog # ALS14591

Specification

PELI1 / Pellino 1 Antibody (aa121-135) - Product Information

Application	WB, IHC
Primary Accession	Q96FA3
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Hamster, Monkey, Pig, Chicken, Horse, Xenopus, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	46kDa KDa

PELI1 / Pellino 1 Antibody (aa121-135) - 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

KLH-conjugated synthetic peptide corresponding to a portion of human Pellino 1 between amino acids 121-135.

Reconstitution & Storage

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

Precautions

PELI1 / Pellino 1 Antibody (aa121-135) is for research use only and not for use in diagnostic or therapeutic procedures.

PELI1 / Pellino 1 Antibody (aa121-135) - 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](http://www.uniprot.org/citations/12496252) target="_blank">12496252, PubMed: [17675297](http://www.uniprot.org/citations/17675297) target="_blank">17675297, PubMed: [29883609](http://www.uniprot.org/citations/29883609) target="_blank">29883609, PubMed: [30952868](http://www.uniprot.org/citations/30952868) target="_blank">30952868). Involved in the TLR and IL-1 signaling pathways via interaction with the complex containing IRAK kinases and TRAF6 (PubMed: <a

[12496252](http://www.uniprot.org/citations/12496252), PubMed: [17675297](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/12496252), PubMed: [17675297](http://www.uniprot.org/citations/17675297)). Conjugates 'Lys-63'-linked ubiquitin chains to the adapter protein ASC/PYCARD, which in turn is crucial for NLRP3 inflammasome activation (PubMed: [34706239](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/29883609)). Negatively regulates necroptosis by reducing RIPK3 expression (PubMed: [29883609](http://www.uniprot.org/citations/29883609)). Mediates 'Lys-63'-linked ubiquitination of RIPK1 (PubMed: [29883609](http://www.uniprot.org/citations/29883609)). Following phosphorylation by ATM, catalyzes 'Lys-63'-linked ubiquitination of NBN, promoting DNA repair via homologous recombination (PubMed: [30952868](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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).

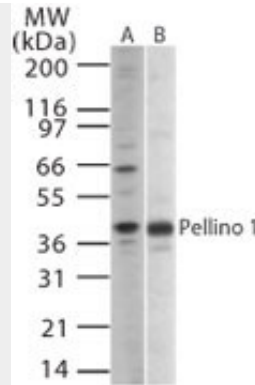
PELI1 / Pellino 1 Antibody (aa121-135) - Protocols

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

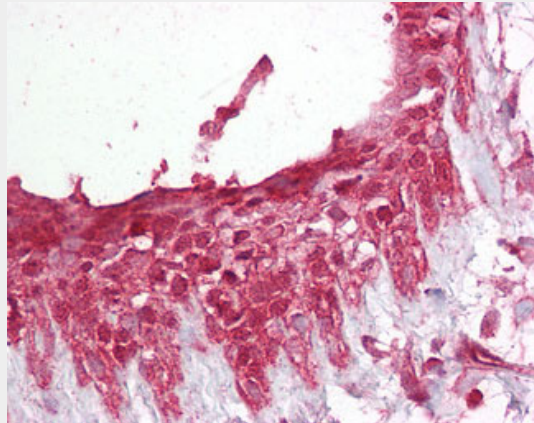
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PELI1 / Pellino 1 Antibody (aa121-135) - Images





Western blot of Pellino 1 in human Ramos cell lysate (A) and mouse Raw cell lysate (B) using...



Anti-PELI1 antibody IHC of human breast.

PELI1 / Pellino 1 Antibody (aa121-135) - 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 (aa121-135) - References

- Rich T., et al. Immunogenetics 52:145-149(2000).
- Resch K., et al. Cytogenet. Cell Genet. 92:172-174(2001).
- Kennedy E.J., et al. Submitted (AUG-2000) to the EMBL/GenBank/DDBJ databases.
- Ota T., et al. Nat. Genet. 36:40-45(2004).
- Jiang Z., et al. J. Biol. Chem. 278:10952-10956(2003).