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

PELI1 antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI14116

Product Information

Application	WB
Primary Accession	Q8C669
Other Accession	NM_020651, NP_065702
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Chicken, Dog, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	46259

Additional Information

Gene ID	67245
Alias Symbol	DKFZp686C18116, MGC50990
Other Names	E3 ubiquitin-protein ligase pellino homolog 1, Pellino-1, 6.3.2.-, Peli1
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-PELI1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	PELI1 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Peli1
Function	E3 ubiquitin ligase catalyzing the covalent attachment of ubiquitin moieties onto substrate proteins (PubMed:16951688, PubMed:29883609). Involved in the TLR and IL-1 signaling pathways via interaction with the complex containing IRAK kinases and TRAF6 (By similarity). Acts as a positive regulator of inflammatory response in microglia through activation of NF-kappa-B and MAP kinase (PubMed:31142803). Mediates 'Lys-63'-linked polyubiquitination of IRAK1 allowing subsequent NF-kappa-B activation (PubMed:16951688). 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. Negatively regulates necroptosis by reducing RIPK3 expression. Mediates 'Lys-63'-linked ubiquitination of RIPK1. Following phosphorylation by ATM, catalyzes 'Lys-63'-linked ubiquitination of NBN, promoting DNA repair via homologous recombination. 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).

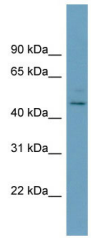
Cellular Location

Chromosome {ECO:0000250|UniProtKB:Q96FA3}. Note=Localizes to DNA double-strand breaks (DSBs) in response to DNA damage. {ECO:0000250|UniProtKB:Q96FA3}

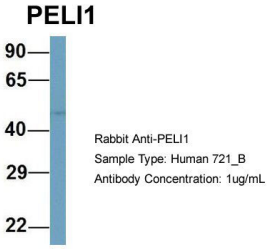
References

Resch K.,et al.Cytogenet. Cell Genet. 92:172-174(2001).
Carninci P.,et al.Science 309:1559-1563(2005).
Choi K.C.,et al.Nat. Immunol. 7:1057-1065(2006).

Images



WB Suggested Anti-PELI1 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:312500
Positive Control: HepG2 cell lysate



Host:Rabbit
Target Name:PELI1
Sample Tissue:Human 721_B
Antibody Dilution: 1.0µg/mlPELI1 is supported by BioGPS gene expression data to be expressed in 721_B

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.