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PELI3 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13453A

Product Information

Application	WB, FC, E
Primary Accession	Q8N2H9
Other Accession	NP_001091980.1, NP_659502.2
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32852
Calculated MW	50755
Antigen Region	1-30

Additional Information

Gene ID	246330
Other Names	E3 ubiquitin-protein ligase pellino homolog 3, Pellino-3, 632-, PELI3
Target/Specificity	This PELI3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human PELI3.
Dilution	WB~~1:1000 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PELI3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PELI3 (HGNC:30010)
Function	E3 ubiquitin ligase catalyzing the covalent attachment of ubiquitin moieties onto substrate proteins (PubMed:12874243, PubMed:17675297). Involved in the TLR and IL-1 signaling pathways via interaction with the complex

	containing IRAK kinases and TRAF6 (PubMed:12874243). Mediates 'Lys-63'-linked polyubiquitination of IRAK1 (PubMed:12874243). Can activate AP1/JUN and ELK1 (PubMed:12874243). Acts as a regulator of innate immunity by mediating 'Lys-63'-linked polyubiquitination of RIPK2 downstream of NOD1 and NOD2, thereby transforming RIPK2 into a scaffolding protein for downstream effectors, ultimately leading to activation of the NF-kappa-B and MAP kinases signaling (By similarity). Catalyzes 'Lys-63'-linked polyubiquitination of RIPK2 in parallel of XIAP (By similarity).
Tissue Location	Highly expressed in brain, heart and testis, and at lower level in kidney, liver, lung, placenta, small intestine, spleen and stomach. Isoform 1 is not expressed in lung

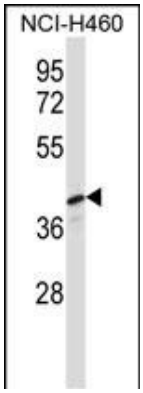
Background

Toll-like receptors (TLRs; see MIM 603030) and IL1R (IL1R1; MIM 147810) are part of the innate immune response aimed at mobilizing defense mechanisms in response in infection or injury. Pellino proteins, such as PELI3, are intermediate components in the signaling cascades initiated by TLRs and IL1R (Jensen and Whitehead, 2003 [PubMed 12874243]).

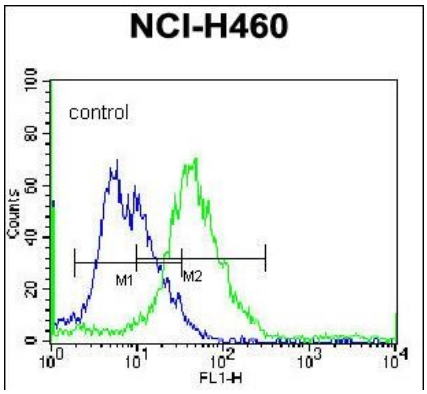
References

Xiao, H., et al. J. Biol. Chem. 283(21):14654-14664(2008)
Butler, M.P., et al. J. Biol. Chem. 280(30):27759-27768(2005)
Jensen, L.E., et al. J. Immunol. 171(3):1500-1506(2003)

Images



PELI3 Antibody (N-term) (Cat. #AP13453a) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the PELI3 antibody detected the PELI3 protein (arrow).



PELI3 Antibody (N-term) (Cat. #AP13453a) flow cytometric analysis of NCI-H460 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated donkey-anti-rabbit secondary antibodies were used for the analysis.