

NPLOC4 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP17356b

Product Information

Application	WB, E
Primary Accession	Q8TAT6
Other Accession	Q9ES54 , P60670 , NP_060391.2
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB37356
Calculated MW	68120
Antigen Region	456-484

Additional Information

Gene ID	55666
Other Names	Nuclear protein localization protein 4 homolog, Protein NPL4, NPLOC4, KIAA1499, NPL4
Target/Specificity	This NPLOC4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 456-484 amino acids from the C-terminal region of human NPLOC4.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. 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	NPLOC4 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	NPLOC4
Synonyms	KIAA1499, NPL4

Function	The ternary complex containing UFD1, VCP and NPLOC4 binds ubiquitinated proteins and is necessary for the export of misfolded proteins from the ER to the cytoplasm, where they are degraded by the proteasome. The NPLOC4-UFD1-VCP complex regulates spindle disassembly at the end of mitosis and is necessary for the formation of a closed nuclear envelope (By similarity). Acts as a negative regulator of type I interferon production via the complex formed with VCP and UFD1, which binds to RIGI and recruits RNF125 to promote ubiquitination and degradation of RIGI (PubMed: 26471729).
Cellular Location	Cytoplasm, cytosol {ECO:0000250 UniProtKB:Q9ES54}. Endoplasmic reticulum {ECO:0000250 UniProtKB:Q9ES54}. Nucleus {ECO:0000250 UniProtKB:Q9ES54} Note=Associated with the endoplasmic reticulum and nuclear {ECO:0000250 UniProtKB:Q9ES54}
Tissue Location	Expressed at highest levels in brain, heart, skeletal muscle, kidney and fetal liver.

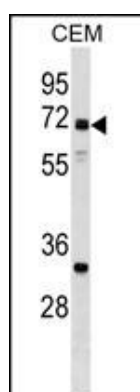
Background

The ternary complex containing UFD1L, VCP and NPLOC4 binds ubiquitinated proteins and is necessary for the export of misfolded proteins from the ER to the cytoplasm, where they are degraded by the proteasome. The NPLOC4-UFD1L-VCP complex regulates spindle disassembly at the end of mitosis and is necessary for the formation of a closed nuclear envelope (By similarity).

References

Liu, F., et al. PLoS Genet. 6, E1000934 (2010) :
Lass, A., et al. Exp. Cell Res. 314(14):2715-2723(2008)
McConnell, E., et al. Biochem. Biophys. Res. Commun. 355(4):1087-1090(2007)
Gevaert, K., et al. Nat. Biotechnol. 21(5):566-569(2003)
Botta, A., et al. Gene 275(1):39-46(2001)

Images



NPLOC4 Antibody (C-term) (Cat. #AP17356b) western blot analysis in CEM cell line lysates (35ug/lane). This demonstrates the NPLOC4 antibody detected the NPLOC4 protein (arrow).

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