

NPLOC4 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP17356b**Specification**

NPLOC4 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q8TAT6](#)**NPLOC4 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 55666**Other Names**

Nuclear protein localization protein 4 homolog, Protein NPL4, NPLOC4, KIAA1499, NPL4

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

NPLOC4 Antibody (C-term) Blocking Peptide - 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.

NPLOC4 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

NPLOC4 Antibody (C-term) Blocking Peptide - Images

NPLOC4 Antibody (C-term) Blocking Peptide - 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).

NPLOC4 Antibody (C-term) Blocking Peptide - 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)