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

PELO Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP9364b

Specification

PELO Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q9BRX2

PELO Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 53918

Other Names
Protein pelota homolog, 31--, PELO

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.

PELO Antibody (C-term) Blocking Peptide - Protein Information

Name PELO {ECO:0000303|PubMed:11060452, ECO:0000312|HGNC:HGNC:8829}

Function
Component of the Pelota-HBS1L complex, a complex that recognizes stalled ribosomes and triggers the No-Go Decay (NGD) pathway (PubMed:21448132, PubMed:23667253, PubMed:27543824, PubMed:27863242). In the Pelota-HBS1L complex, PELO recognizes ribosomes stalled at the 3' end of an mRNA and engages stalled ribosomes by destabilizing mRNA in the mRNA channel (PubMed:27543824, PubMed:27863242). Following mRNA extraction from stalled ribosomes by the SKI complex, the Pelota-HBS1L complex promotes recruitment of ABCE1, which drives the disassembly of stalled ribosomes, followed by degradation of damaged mRNAs as part of the NGD pathway (PubMed:21448132, PubMed:32006463). As part of the PINK1-regulated signaling, upon mitochondrial damage is recruited to the ribosome/mRNA-ribonucleoprotein complex associated to mitochondrial outer membrane thereby enabling the recruitment of autophagy receptors and induction of mitophagy (PubMed:<a

href="http://www.uniprot.org/citations/29861391" target="_blank">29861391).

Cellular Location
Cytoplasm.

Tissue Location
Ubiquitously expressed.

PELO Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

PELO Antibody (C-term) Blocking Peptide - Images

PELO Antibody (C-term) Blocking Peptide - Background

PELO encodes a protein which contains a conserved nuclear localization signal. The encoded protein may have a role in spermatogenesis, cell cycle control, and in meiotic cell division.

PELO Antibody (C-term) Blocking Peptide - References

Cheli,Y. Biochim. Biophys. Acta 1769 (9-10), 546-558 (2007)Ewing,R.M. Mol. Syst. Biol. 3, 89 (2007)Olsen,J.V. Cell 127 (3), 635-648 (2006)