

KLH22 Antibody (C-term) Blocking Peptide

Synthetic peptide Catalog # BP18159b

Specification

KLH22 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession

Q53GT1

KLH22 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 84861

Other Names

Kelch-like protein 22, KLHL22

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.

KLH22 Antibody (C-term) Blocking Peptide - Protein Information

Name KLHL22 (HGNC:25888)

Function

Substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin ligase complex required for chromosome alignment and localization of PLK1 at kinetochores. The BCR(KLHL22) ubiquitin ligase complex mediates monoubiquitination of PLK1, leading to PLK1 dissociation from phosphoreceptor proteins and subsequent removal from kinetochores, allowing silencing of the spindle assembly checkpoint (SAC) and chromosome segregation. Monoubiquitination of PLK1 does not lead to PLK1 degradation (PubMed:19995937, PubMed:23455478, PubMed:23455478, PubMed:23455478, PubMed:23455478, PubMed:<a href="http://www.uniprot.org/citations/23769719" ta

Cellular Location

Cytoplasm, cytosol. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, spindle. Nucleus. Lysosome Note=Mainly cytoplasmic in prophase and



prometaphase. Associates with the mitotic spindle as the cells reach chromosome bi-orientation Localizes to the centrosomes shortly before cells enter anaphase After anaphase onset, predominantly associates with the polar microtubules connecting the 2 opposing centrosomes and gradually diffuses into the cytoplasm during telophase (PubMed:23455478). Localizes to the nucleus upon amino acid starvation (PubMed:29769719). Relocalizes to the cytosol and associates with lysosomes when amino acids are available (PubMed:29769719).

KLH22 Antibody (C-term) Blocking Peptide - Protocols

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

• Blocking Peptides

KLH22 Antibody (C-term) Blocking Peptide - Images

KLH22 Antibody (C-term) Blocking Peptide - Background

Substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin ligase complex required for cell division. BCR E3 ubiquitin ligase complexes mediate the ubiquitination of target proteins.

KLH22 Antibody (C-term) Blocking Peptide - References

Maerki, S., et al. J. Cell Biol. 187(6):791-800(2009)Collins, J.E., et al. Genome Biol. 5 (10), R84 (2004) :