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

CHCHD3 Blocking Peptide (Center)

Synthetic peptide
Catalog # BP20731c

Specification

CHCHD3 Blocking Peptide (Center) - Product Information

Primary Accession Q9NX63

CHCHD3 Blocking Peptide (Center) - Additional Information

Gene ID 54927

Other Names
MICOS complex subunit MIC19, Coiled-coil-helix-coiled-coil-helix domain-containing protein 3, CHCHD3, MIC19, MINOS3

Target/Specificity
The synthetic peptide sequence is selected from aa 83-96 of HUMAN CHCHD3

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.

CHCHD3 Blocking Peptide (Center) - Protein Information

Name CHCHD3

Synonyms MIC19, MINOS3

Function
Component of the MICOS complex, a large protein complex of the mitochondrial inner membrane that plays crucial roles in the maintenance of crista junctions, inner membrane architecture, and formation of contact sites to the outer membrane. Has also been shown to function as a transcription factor which binds to the BAG1 promoter and represses BAG1 transcription. Plays an important role in the maintenance of the MICOS complex stability and the mitochondrial cristae morphology (PubMed:25781180).

Cellular Location
Mitochondrion inner membrane {ECO:0000250|UniProtKB:Q9CRB9}; Lipid-anchor; Intermembrane side {ECO:0000250|UniProtKB:Q9CRB9}. Cytoplasm. Nucleus Mitochondrion

Tissue Location
Detected at low levels in brain, placenta, lung, liver, kidney and pancreas with increased levels in heart and skeletal muscle. Higher expression in primary lung cancers than in normal lung tissue.

CHCHD3 Blocking Peptide (Center) - Protocols

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

- Blocking Peptides

CHCHD3 Blocking Peptide (Center) - Images

CHCHD3 Blocking Peptide (Center) - Background

Required for maintenance of mitochondrial crista integrity and mitochondrial function. May act as a scaffolding protein that stabilizes protein complexes involved in crista architecture and protein import. Has also been shown to function as a transcription factor which binds to the BAG1 promoter and represses BAG1 transcription.

CHCHD3 Blocking Peptide (Center) - References

Ota T.,et al.Nat. Genet. 36:40-45(2004).
Daub H.,et al.Mol. Cell 31:438-448(2008).
Dephoure N.,et al.Proc. Natl. Acad. Sci. U.S.A. 105:10762-10767(2008).
Mayya V.,et al.Sci. Signal. 2:RA46-RA46(2009).
Choudhary C.,et al.Science 325:834-840(2009).