

CHCHD3 Blocking Peptide (Center)
Synthetic peptide
Catalog # BP20731c**Specification**

CHCHD3 Blocking Peptide (Center) - Product InformationPrimary 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).