

FUNDC1 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP17377a**Specification**

FUNDC1 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q8IVP5](#)**FUNDC1 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 139341**Other Names**

FUN14 domain-containing protein 1, FUNDC1

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.

FUNDC1 Antibody (N-term) Blocking Peptide - Protein Information**Name** FUNDC1**Function**

Integral mitochondrial outer-membrane protein that mediates the formation of mitochondria-associated endoplasmic reticulum membranes (MAMs) (PubMed:33972548). In turn, mediates angiogenesis and neoangiogenesis through interference with intracellular Ca(2+) communication and regulation of the vascular endothelial growth factor receptor KDR/VEGFR2 expression at both mRNA and protein levels (PubMed:33972548). Acts also as an activator of hypoxia-induced mitophagy, an important mechanism for mitochondrial quality and homeostasis, by interacting with and recruiting LC3 protein family to mitochondria (PubMed:22267086, PubMed:24671035, PubMed:24746696, PubMed:27653272). Mechanistically, recruits DRP1 at ER-mitochondria contact sites leading to DRP1 oligomerization and GTPase activity to facilitate mitochondrial fission during hypoxia (PubMed:27145933, PubMed:33978709). Additionally, plays a role in hepatic ferroptosis by interacting directly with glutathione peroxidase/GPX4 to

facilitate its recruitment into mitochondria through TOM/TIM complex where it is degraded by mitophagy (PubMed:36828120).

Cellular Location

Mitochondrion outer membrane; Multi-pass membrane protein

Tissue Location

Widely expressed..

FUNDC1 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

FUNDC1 Antibody (N-term) Blocking Peptide - Images**FUNDC1 Antibody (N-term) Blocking Peptide - Background**

FUNDC1 belongs to the FUN14 family. The exact function of FUNDC1 remains unknown.

FUNDC1 Antibody (N-term) Blocking Peptide - References

Terracciano, A., et al. Mol. Psychiatry 15(6):647-656(2010)Oh, J.H., et al. Mamm. Genome 16(12):942-954(2005)Ross, M.T., et al. Nature 434(7031):325-337(2005)Harrington, J.J., et al. Nat. Biotechnol. 19(5):440-445(2001)