

Anti-FUNDC1 Antibody
Rabbit polyclonal antibody to FUNDC1
Catalog # AP60171

Specification

Anti-FUNDC1 Antibody - Product Information

Application	WB
Primary Accession	Q8IVP5
Other Accession	Q9DB70
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	17178

Anti-FUNDC1 Antibody - Additional Information

Gene ID 139341

Other Names
FUN14 domain-containing protein 1

Target/Specificity
Recognizes endogenous levels of FUNDC1 protein.

Dilution
WB~~WB (1/500 - 1/1000)

Format
Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage
Store at -20 °C. Stable for 12 months from date of receipt

Anti-FUNDC1 Antibody - Protein Information

Name FUNDC1

Function
Integral mitochondrial outer-membrane protein that mediates the formation of mitochondria-associated endoplasmic reticulum membranes (MAMs) (PubMed:[33972548](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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:[33972548](http://www.uniprot.org/citations/33972548)).

<http://www.uniprot.org/citations/22267086> target="_blank">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

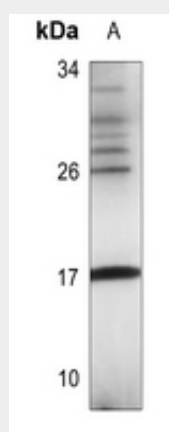
Widely expressed..

Anti-FUNDC1 Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-FUNDC1 Antibody - Images



Western blot analysis of FUNDC1 expression in HEK293T (A) whole cell lysates.

Anti-FUNDC1 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human FUNDC1. The exact sequence is proprietary.