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

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

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). 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). Also acts 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

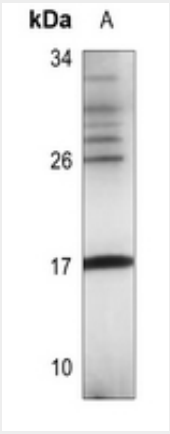
Tissue Location
Widely expressed..

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 Cytomety
- 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.