

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

**Specification**

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**Anti-FUNDC1 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q8IVP5</a>
Other Accession	<a href="#">Q9DB70</a>
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:<a href="http://www.uniprot.org/citations/33972548" target="\_blank">33972548</a>). 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:<a href="http://www.uniprot.org/citations/33972548" target="\_blank">33972548</a>). 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:<a

<http://www.uniprot.org/citations/22267086> target="\_blank">22267086</a>, PubMed:<a href="http://www.uniprot.org/citations/24671035" target="\_blank">24671035</a>, PubMed:<a href="http://www.uniprot.org/citations/24746696" target="\_blank">24746696</a>, PubMed:<a href="http://www.uniprot.org/citations/27653272" target="\_blank">27653272</a>).

Mechanistically, recruits DRP1 at ER-mitochondria contact sites leading to DRP1 oligomerization and GTPase activity to facilitate mitochondrial fission during hypoxia (PubMed:<a href="http://www.uniprot.org/citations/27145933" target="\_blank">27145933</a>, PubMed:<a href="http://www.uniprot.org/citations/33978709" target="\_blank">33978709</a>). 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:<a href="http://www.uniprot.org/citations/36828120" target="\_blank">36828120</a>).

#### **Cellular Location**

Mitochondrion outer membrane; Multi-pass membrane protein

#### **Tissue Location**

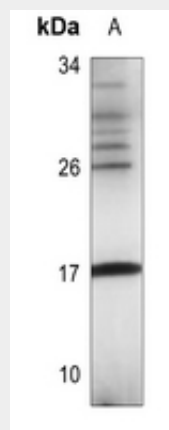
Widely expressed..

#### **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.