

# Anti-FUNDC1 Antibody

Rabbit polyclonal antibody to FUNDC1 Catalog # AP60171

### **Product Information**

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

## **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

#### **Protein Information**

Name	FUNDC1
Function	Integral mitochondrial outer-membrane protein that mediates the formation of mitochondria-associated endoplasmic reticulum membranes (MAMs) (PubMed: <u>33972548</u> ). 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: <u>33972548</u> ). 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: <u>22267086</u> , PubMed: <u>24671035</u> , PubMed: <u>24746696</u> , PubMed: <u>27653272</u> ). Mechanistically, recruits DRP1 at ER-mitochondria contact sites leading to DRP1 oligomerization and GTPase activity to facilitate mitochondrial fission during hypoxia (PubMed: <u>27145933</u> , PubMed: <u>33978709</u> ). 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: <u>36828120</u> ).
Cellular Location	Mitochondrion outer membrane; Multi-pass membrane protein
Tissue Location	Widely expressed

## Background

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

#### Images



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

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