

FUNDC1 Polyclonal Antibody
Catalog # AP73841**Specification****FUNDC1 Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	Q8IVP5
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

FUNDC1 Polyclonal Antibody - Additional Information

Gene ID 139341

Other Names

FUNDC1; FUN14 domain-containing protein 1

Dilution

WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

FUNDC1 Polyclonal 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: [22267086](http://www.uniprot.org/citations/22267086), PubMed: [24671035](http://www.uniprot.org/citations/24671035), PubMed: [24746696](http://www.uniprot.org/citations/24746696), PubMed: [27653272](http://www.uniprot.org/citations/27653272)). Mechanistically, recruits DRP1 at ER-mitochondria contact sites leading to DRP1 oligomerization and GTPase activity to facilitate mitochondrial fission during hypoxia (PubMed: [27145933](http://www.uniprot.org/citations/27145933), PubMed: [27145933](http://www.uniprot.org/citations/27145933)).

[33978709](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/36828120)).

Cellular Location

Mitochondrion outer membrane; Multi-pass membrane protein

Tissue Location

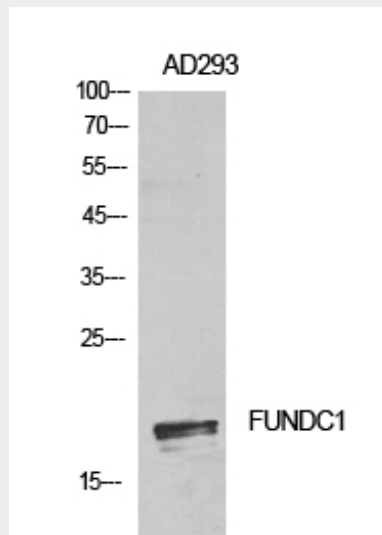
Widely expressed..

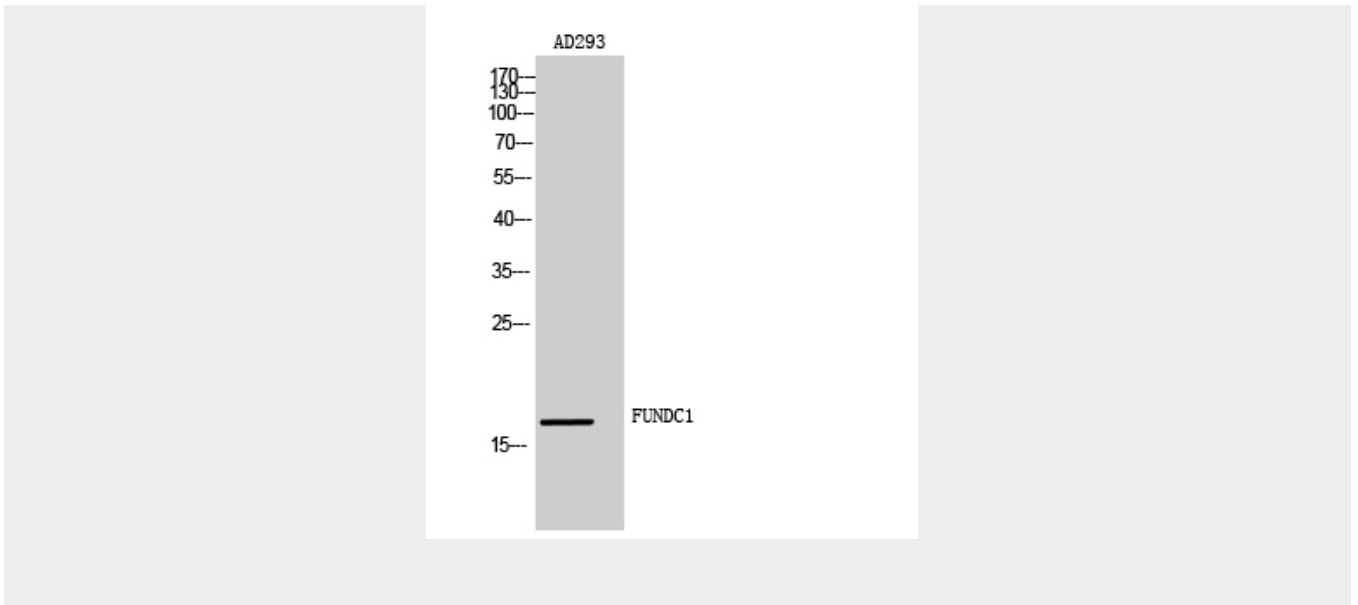
FUNDC1 Polyclonal Antibody - Protocols

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](#)

FUNDC1 Polyclonal Antibody - Images





FUNDC1 Polyclonal Antibody - Background

Acts as an activator of hypoxia-induced mitophagy, an important mechanism for mitochondrial quality control.