

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). 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). 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, 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: 27145933).

<http://www.uniprot.org/citations/33978709> target="_blank">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: <http://www.uniprot.org/citations/36828120> target="_blank">36828120).

Cellular Location

Mitochondrion outer membrane; Multi-pass membrane protein

Tissue Location

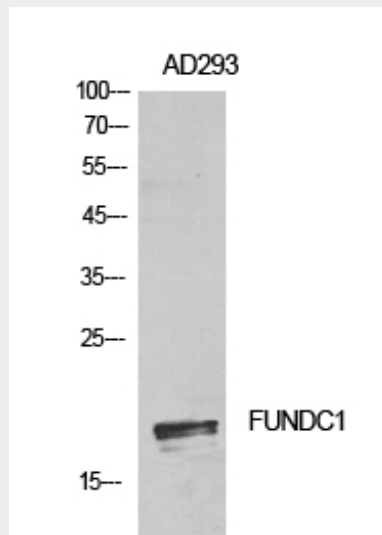
Widely expressed..

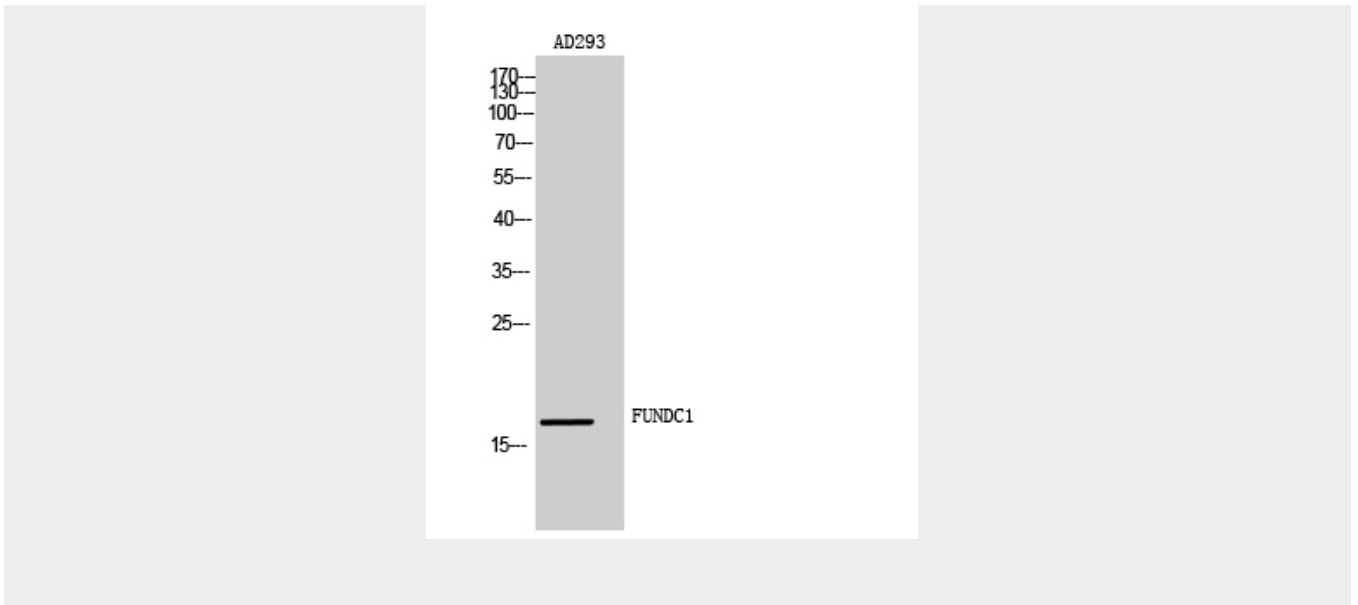
FUNDC1 Polyclonal Antibody - Protocols

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.