

# FUNDC1 Polyclonal Antibody

Catalog # AP73841

## Product Information

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Application	WB
Primary Accession	<a href="#">Q8IVP5</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	17178

## Additional Information

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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

## Protein Information

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Name	FUNDC1
Function	<p>Integral mitochondrial outer-membrane protein that mediates the formation of mitochondria-associated endoplasmic reticulum membranes (MAMs) (PubMed:<a href="#">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="#">33972548</a>). 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:<a href="#">22267086</a>, PubMed:<a href="#">24671035</a>, PubMed:<a href="#">24746696</a>, PubMed:<a href="#">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="#">27145933</a>, PubMed:<a href="#">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="#">36828120</a>).</p>

<b>Cellular Location</b>	Mitochondrion outer membrane; Multi-pass membrane protein
<b>Tissue Location</b>	Widely expressed..

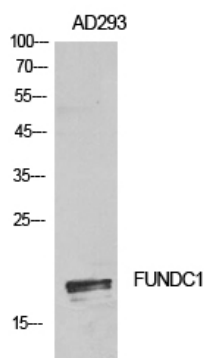
## Background

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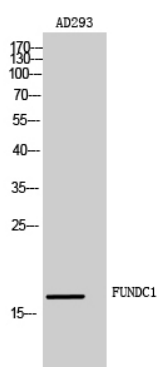
Acts as an activator of hypoxia-induced mitophagy, an important mechanism for mitochondrial quality control.

## Images

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Western Blot analysis of AD293 cells using FUNDC1 Polyclonal Antibody. Antibody was diluted at 1:500. Secondary antibody was diluted at 1:20000



Western Blot analysis of AD293 cells using FUNDC1 Polyclonal Antibody diluted at 1 : 500. Secondary antibody was diluted at 1:20000

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.