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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℃

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:<a

href="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:36828120).

Cellular Location
Mitochondrion outer membrane; Multi-pass membrane protein

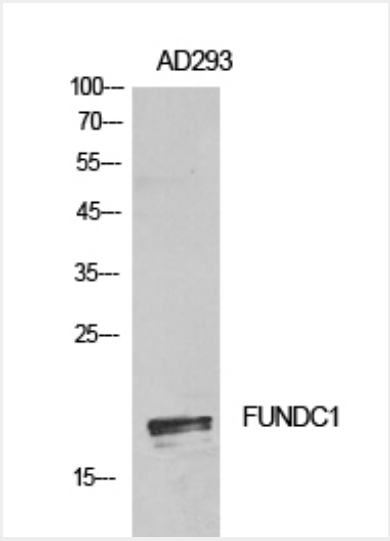
Tissue Location
Widely expressed..

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 Cytomety
- Cell Culture

FUNDC1 Polyclonal Antibody - Images



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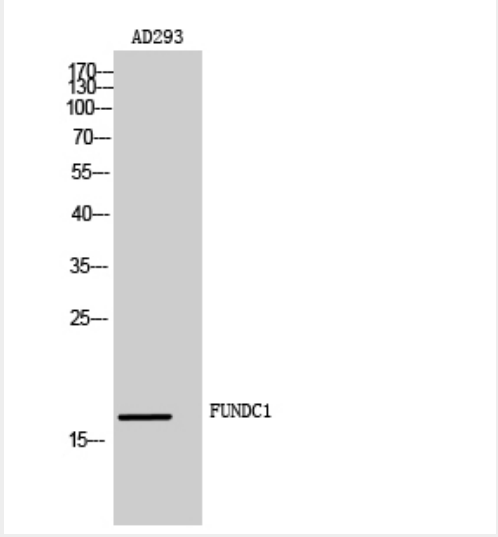

FUNDC1 Polyclonal Antibody - Background

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