

**FUNDC1 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP17377a**

**Specification**

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**FUNDC1 Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q8IVP5</a>
Other Accession	<a href="#">Q5BJS4</a> , <a href="#">Q9DB70</a> , <a href="#">F1N5S9</a> , <a href="#">NP_776155.1</a>
Reactivity	Human, Mouse
Predicted	Bovine, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	79-108

**FUNDC1 Antibody (N-term) - Additional Information**

**Gene ID** 139341

**Other Names**

FUN14 domain-containing protein 1, FUNDC1

**Target/Specificity**

This FUNDC1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 79-108 amino acids from the N-terminal region of human FUNDC1.

**Dilution**

WB~~1:2000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

FUNDC1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**FUNDC1 Antibody (N-term) - 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:[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

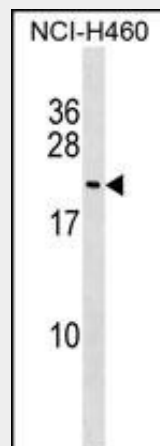
Widely expressed..

### FUNDC1 Antibody (N-term) - Protocols

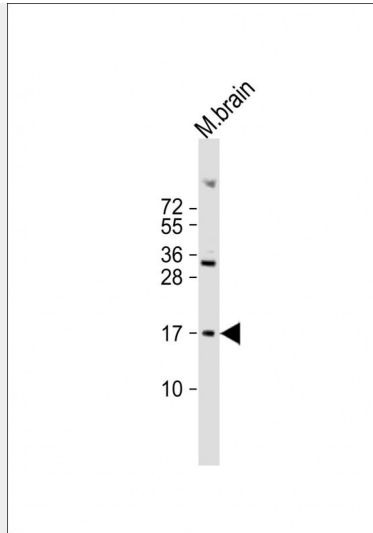
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### FUNDC1 Antibody (N-term) - Images



FUNDC1 Antibody (N-term) (Cat. #AP17377a) western blot analysis in NCI-H460 cell line lysates (35ug/lane). This demonstrates the FUNDC1 antibody detected the FUNDC1 protein (arrow).



Anti-FUNDC1 Antibody (N-term) at 1:2000 dilution + mouse brain lysate Lysates/proteins at 20  $\mu$ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 17 kDa Blocking/Dilution buffer: 5% NFD/MTBST.

#### **FUNDC1 Antibody (N-term) - Background**

FUNDC1 belongs to the FUN14 family. The exact function of FUNDC1 remains unknown.

#### **FUNDC1 Antibody (N-term) - References**

Terracciano, A., et al. Mol. Psychiatry 15(6):647-656(2010)  
Oh, J.H., et al. Mamm. Genome 16(12):942-954(2005)  
Ross, M.T., et al. Nature 434(7031):325-337(2005)  
Harrington, J.J., et al. Nat. Biotechnol. 19(5):440-445(2001)

#### **FUNDC1 Antibody (N-term) - Citations**

- [IL-27 disturbs lipid metabolism and restrains mitochondrial activity to inhibit  \$\gamma\delta\$  T17 cell-mediated skin inflammation](#)
- [Src Activation Aggravates Podocyte Injury in Diabetic Nephropathy Suppression of FUNDC1-Mediated Mitophagy](#)
- [FUNDC1-dependent mitophagy induced by tPA protects neurons against cerebral ischemia-reperfusion injury](#)
- [Hydrogen gas inhalation attenuates sepsis-induced liver injury in a FUNDC1-dependent manner.](#)