

# Product Datasheet

## FUNDC1 Antibody - BSA Free

### NBP1-81063

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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#### Publications: 6

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Updated 2/21/2025 v.20.1

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**NBP1-81063**

FUNDC1 Antibody - BSA Free

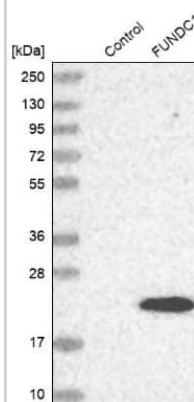
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description	
Host	Rabbit
Gene ID	139341
Gene Symbol	FUNDC1
Species	Human, Mouse
Reactivity Notes	Use in Mouse reported in scientific literature (PMID:30646747).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: MATRNPPPQDYESDDDSYEVLDTLEYARRHQWWNRVFGHSSGPMVEKYSVA TQIVM

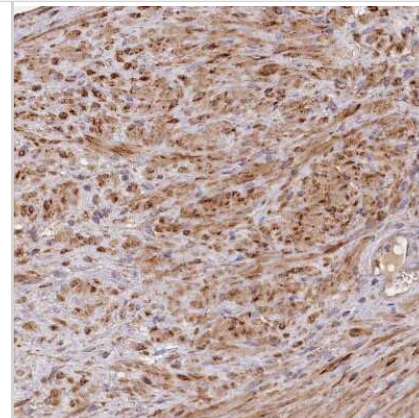
Product Application Details	
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:50 - 1:200, Immunoprecipitation Reported in scientific literature (PMID:29945885), Immunohistochemistry-Paraffin 1:50 - 1:200
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended.

**Images**

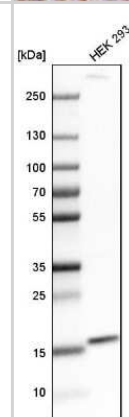
Western Blot: FUNDC1 Antibody [NBP1-81063] - Analysis in control (vector only transfected HEK293T lysate) and FUNDC1 over-expression lysate (Co-expressed with a C-terminal myc-DDK tag (3.1 kDa) in mammalian HEK293T cells).



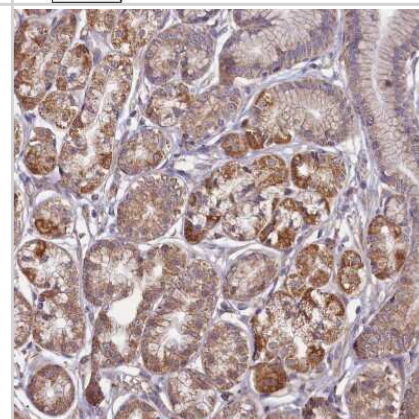
Immunohistochemistry-Paraffin: FUNDC1 Antibody [NBP1-81063] - Staining of human prostate shows moderate to strong cytoplasmic positivity in smooth muscle cells.



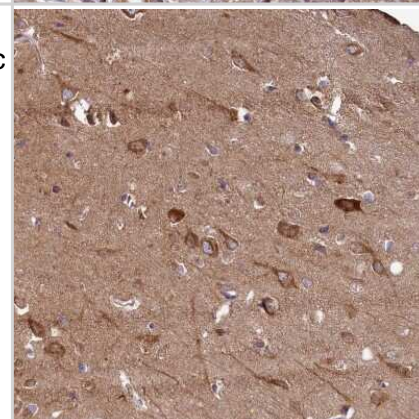
Western Blot: FUNDC1 Antibody [NBP1-81063] - Analysis in human cell line HEK 293.



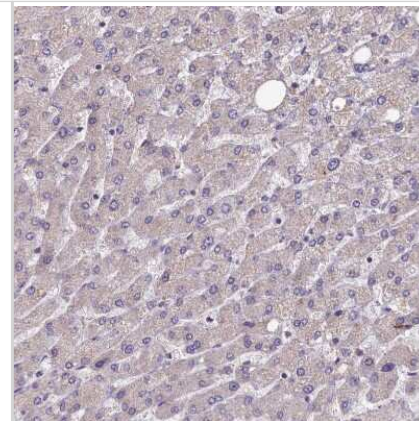
Immunohistochemistry-Paraffin: FUNDC1 Antibody [NBP1-81063] - Staining of human stomach shows moderate to strong cytoplasmic positivity in glandular cells.



Immunohistochemistry-Paraffin: FUNDC1 Antibody [NBP1-81063] - Staining of human cerebral cortex shows moderate to strong cytoplasmic positivity in neurons.



Immunohistochemistry-Paraffin: FUNDC1 Antibody [NBP1-81063] - Staining of human liver shows no positivity in hepatocytes as expected.



## Publications

Kaur, B;Miglioranza Scavuzzi, B;Yang, M;Yao, J;Jia, L;Abcouwer, SF;Zacks, DN; ER Stress and Mitochondrial Perturbations Regulate Cell Death in Retinal Detachment: Exploring the Role of HIF1? Investigative ophthalmology & visual science 2024-09-03 [PMID: 39325470]

Jage?i? D, Petrovi? DJ, imuni? I et al. The Oxygen and Glucose Deprivation of Immature Cells of the Nervous System Exerts Distinct Effects on Mitochondria, Mitophagy, and Autophagy, Depending on the Cells' Differentiation Stage Brain sciences 2023-06-04 [PMID: 37371388] (Western Blot)

Wang C, Dai X, Wu S et al. FUNDC1-dependent mitochondria-associated endoplasmic reticulum membranes are involved in angiogenesis and neoangiogenesis Nature communications 2021-05-10 [PMID: 33972548]

Singh B K, Sinha R A et al. Thyroid hormone receptor and ERR alpha coordinately regulate mitochondrial fission, mitophagy, biogenesis, and function. Sci Signal 2018-06-26 [PMID: 29945885] (IP, Mouse)

Wu S, Lu Q et al. Hyperglycemia-Driven Inhibition of AMP-Activated Protein Kinase alpha 2 Induces Diabetic Cardiomyopathy by Promoting Mitochondria-Associated Endoplasmic Reticulum Membranes In Vivo. Circulation 2019-04-16 [PMID: 30646747] (WB, Mouse)

Livingston MJ, Wang J, Zhou J et al. Clearance of damaged mitochondria via mitophagy is important to the protective effect of ischemic preconditioning in kidneys Autophagy 2019-05-22 [PMID: 31066324] (WB, Human)



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### **Products Related to NBP1-81063**

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NBP1-81063PEP	FUNDC1 Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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