

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.

www.novusbio.com



technical@novusbio.com

Publications: 6

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Updated 12/2/2025 v.20.1

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NBP1-81063

FUNDC1 Antibody - BSA Free

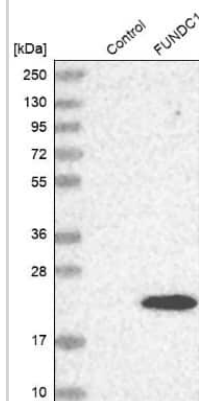
| Product Information | |
|---------------------|--|
| Unit Size | 0.1 ml |
| Concentration | Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services. |
| Storage | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.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

| Product Description | |
|---------------------|---|
| Description | Novus Biologicals Rabbit FUNDC1 Antibody - BSA Free (NBP1-81063) is a polyclonal antibody validated for use in IHC, WB and IP. Anti-FUNDC1 Antibody: Cited in 6 publications. All Novus Biologicals antibodies are covered by our 100% guarantee. |
| 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: MATRNPPPQDYESDDDSYEVLDLTEYARRHQWWNRVFGHSSGPMVEKYSVA TQIVM |

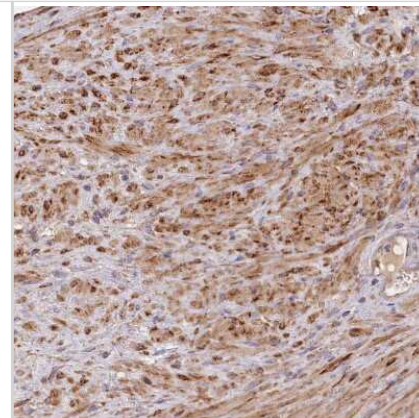
| Product Application Details | |
|-----------------------------|---|
| Applications | Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry, Immunoprecipitation |
| Recommended Dilutions | Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:50 - 1:200, Immunoprecipitation Reported in scientific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

Images

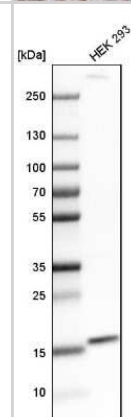
Western Blot: FUNDC1 Antibody [NBP1-81063] - Analysis in control (vector only transfected HEK293T lysate) and FUNDC1 over-expression lysate (Co-expressed with a C-terminal myc-DDK tag (3.1 kDa) in mammalian HEK293T cells).



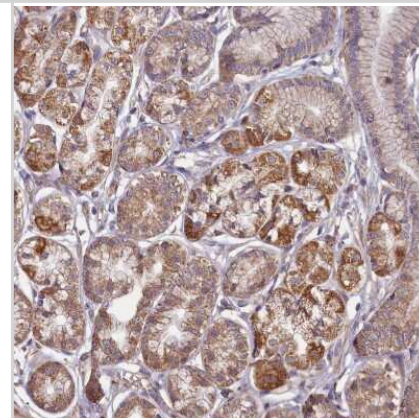
Immunohistochemistry-Paraffin: FUNDC1 Antibody [NBP1-81063] - Staining of human prostate shows moderate to strong cytoplasmic positivity in smooth muscle cells.



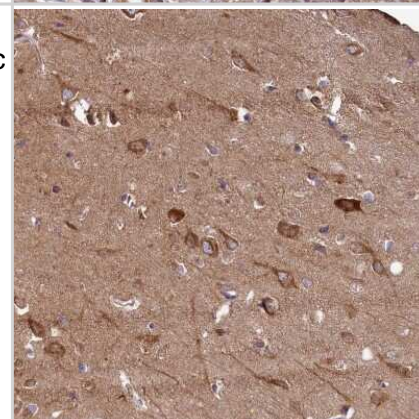
Western Blot: FUNDC1 Antibody [NBP1-81063] - Analysis in human cell line HEK 293.



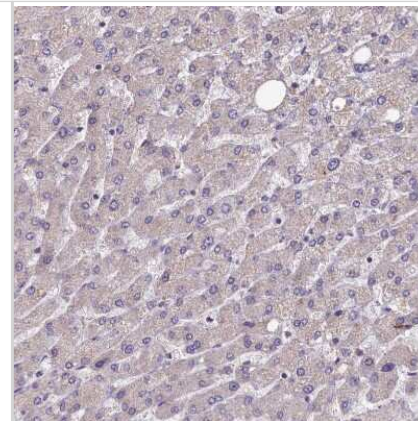
Immunohistochemistry-Paraffin: FUNDC1 Antibody [NBP1-81063] - Staining of human stomach shows moderate to strong cytoplasmic positivity in glandular cells.



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

| | |
|---------------|---|
| NBP1-81063PEP | FUNDC1 Recombinant Protein Antigen |
| NBP2-33376H | Blue Marker Antibody (6F4-F6) [HRP] |
| HAF008 | Goat anti-Rabbit IgG Secondary Antibody [HRP] |
| NB7160 | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP2-24891 | Rabbit IgG Isotype Control |

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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

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