

NDUFS4 Polyclonal Antibody

| Product Details | |
|--------------------|---|
| Size | 100 µL |
| Species Reactivity | Human, Mouse, Rat |
| Published Species | Mouse |
| Host/Isotype | Rabbit / IgG |
| Class | Polyclonal |
| Type | Antibody |
| Conjugate | Unconjugated |
| Immunogen | Recombinant fragment corresponding to a region within amino acids 1 and 175 of NDUFS4 (Uniprot ID#O43181) |
| Form | Liquid |
| Concentration | 1 mg/mL |
| Purification | Antigen affinity chromatography |
| Storage buffer | 0.1M tris glycine, pH 7, with 10% glycerol |
| Contains | 0.01% thimerosal |
| Storage conditions | Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles. |
| RRID | AB_11152796 |

| Applications | Tested Dilution | Publications |
|---|-----------------|----------------|
| Western Blot (WB) | 1:500-1:3,000 | 4 Publications |
| Immunohistochemistry (Paraffin) (IHC (P)) | 1:100-1:1,000 | - |
| Immunocytochemistry (ICC/IF) | 1:100-1:1,000 | - |
| Miscellaneous PubMed (Misc) | - | 1 Publication |

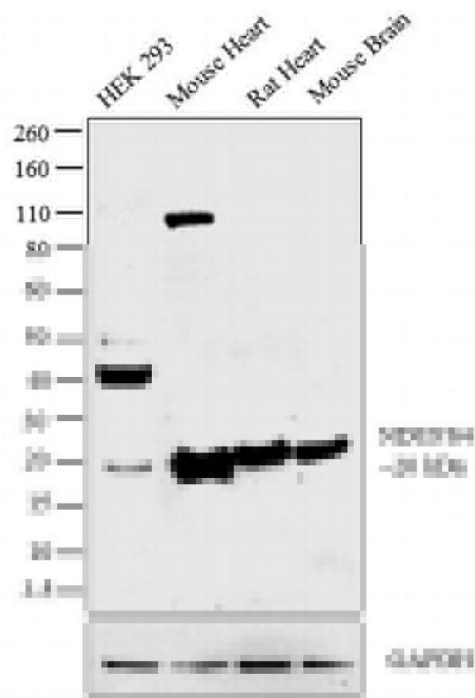
Product Specific Information

Recommended positive controls: 293T, mouse brain, rat heart.

Predicted reactivity: Mouse (86%), Rat (86%), Zebrafish (80%), Chimpanzee (99%), Bovine (89%).

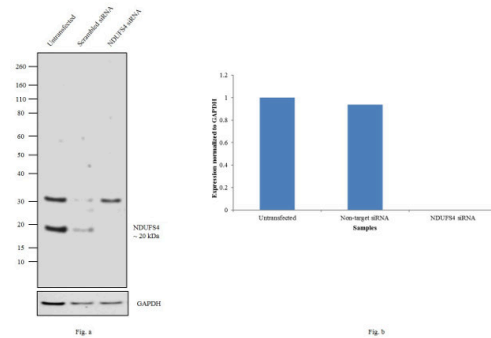
Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Product Images For NDUFS4 Polyclonal Antibody



NDUFS4 Antibody (PA5-21677) in WB

Western blot analysis was performed on whole extracts (30 µg lysate) of HEK 293 (Lane 1), tissue extracts of Mouse Heart (Lane 2), Rat Heart (Lane 3) and Mouse Brain (Lane 4). The blot was probed with Anti- NDUFS4 Polyclonal Antibody (Product # PA5-21677, 1:2000 dilution) and detected by chemiluminescence using Goat anti Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.25 µg/mL, 1:4000 dilution). A 20 kDa band corresponding to NDUFS4 was detected in the cell line and tissues tested.

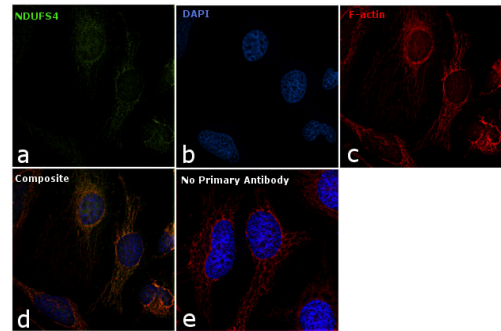


NDUFS4 Antibody (PA5-21677)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. HEK-293 cells were transfected with NDUFS4 siRNA and reduction of signal was observed in Western Blot using NDUFS4 Polyclonal Antibody (Product # PA5-21677). {KD}

NDUFS4 Antibody (PA5-21677) in ICC/IF

Immunofluorescence analysis of NDUFS4 was performed using 70% confluent log phase HeLa cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with NDUFS4 Rabbit Polyclonal Antibody (Product # PA5-21677) at 5 µg/mL in 0.1% BSA and incubated overnight at 4 degree and then labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). Mitochondria (Panel c: red) was stained with Mitotracker Red CMXRos (Product # M7512). Panel d represents the merged image showing Mitochondrial localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



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Western Blot (4)

| | |
|--|---------------------|
| International journal of molecular sciences | Year 2022 |
| cAMP/PKA Signaling Modulates Mitochondrial Supercomplex Organization. | |
| "Published figure using NDUFS4 polyclonal antibody (Product # PA5-21677) in Western Blot" | |
| Authors: Signorile A,Pacelli C,Palese LL,Santeramo A,Roca E,Cocco T,De Rasmio D | |
| Endocrinology | Year 2022 |
| Adipose Mitochondrial Complex I Deficiency Modulates Inflammation and Glucose Homeostasis in a Sex-Dependent Manner. | Species Mouse |
| "PA5-21677 was used in Western Blotting to support that adipocyte-specific mitochondrial dysfunction is sufficient to induce tissue inflammation and can cause systemic glucose abnormalities in male mice." | Dilution 1:3,000 |
| Authors: Choi KM,Ryan KK,Yoon JC | |

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Miscellaneous PubMed (1)

| | |
|--|-------------------|
| Nature communications | Year 2022 |
| Mitochondrial calcium uniporter stabilization preserves energetic homeostasis during Complex I impairment. | Species Mouse |
| "PA5-21677 was used in Miscellaneous to identify a fundamental pathway producing compensatory increases in calcium influx during Complex I impairment." | Dilution 1:300 |
| Authors: Balderas E,Eberhardt DR,Lee S,Pleinis JM,Sommakia S,Balynas AM,Yin X,Parker MC,Maguire CT,Cho S, Szulik MW,Bakhtina A,Bia RD,Friederich MW,Locke TM, Van Hove JLK,Drakos SG,Sancak Y,Tristani-Firouzi M,Franklin S,Rodan AR,Chaudhuri D | |

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