

Ndufs4 Rabbit mAb

Catalog No: #49972

Package Size: #49972-1 50ul #49972-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

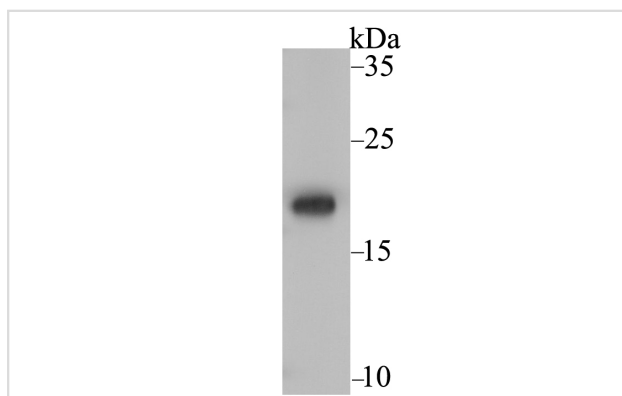
Description

Product Name	Ndufs4 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JE40-47
Purification	ProA affinity purified
Applications	WB,IHC,FC,IP
Species Reactivity	Hu, Ms, Rt
Immunogen Description	Recombinant protein within human Ndufs4 aa 43-175.
Other Names	AQDQ antibody CI 18 antibody CI 18 kDa antibody CI AQDQ antibody CI-18 kDa antibody CI-AQDQ antibody Complex I 18 kDa antibody Complex I AQDQ antibody Complex I-18 kDa antibody Complex I-AQDQ antibody mitochondrial antibody mitochondrial respiratory chain complex I (18 KD subunit) antibody NADH coenzyme Q reductase antibody NADH dehydrogenase (ubiquinone) Fe S protein 4 18kDa antibody NADH dehydrogenase [ubiquinone] iron-sulfur protein 4 antibody NADH dehydrogenase antibody NADH ubiquinone oxidoreductase 18 kDa subunit antibody NADH-ubiquinone oxidoreductase 18 kDa subunit antibody NDUFS4 antibody NDUS4_HUMAN antibody
Accession No.	Swiss-Prot#:O43181
Uniprot	O43181
GeneID	4724;
Calculated MW	20 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

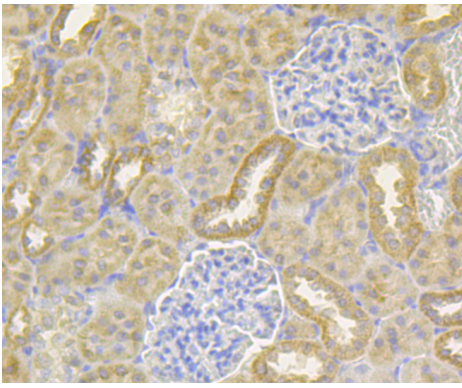
Application Details

WB: 1:500-1:2,000IHC: 1:50-1:200IP: 1:10-1:50FC: 1:50-1:100

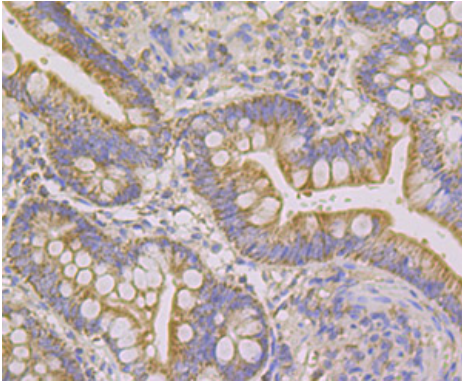
Images



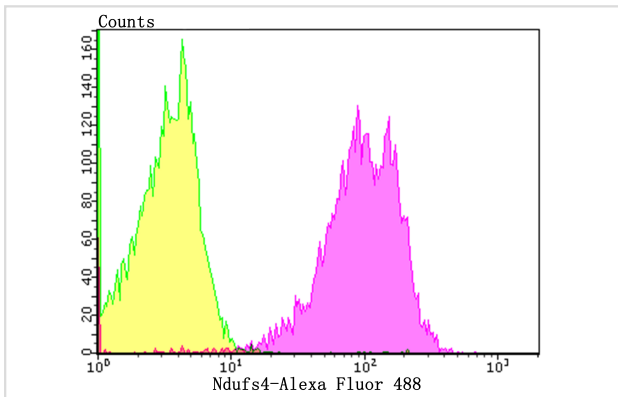
Western blot analysis of Ndufs4 on rat heart tissue lysate using anti-Ndufs4 antibody at 1/1,000 dilution.



Immunohistochemical analysis of paraffin-embedded rat kidney tissue using anti-Ndufs4 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human small intestine tissue using anti-Ndufs4 antibody. Counter stained with hematoxylin.



Flow cytometric analysis of SH-SY-5Y cells with Ndufs4 antibody at 1/100 dilution (purple) compared with an unlabelled control (cells without incubation with primary antibody; yellow). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.

Background

Complex 1 (also known as NADH dehydrogenase) of the electron transport chain (respiratory chain) is an enzymatic complex that catalyzes the transfer of electrons from NADH to ubiquinone. Free energy from the reaction is conserved in the transfer of protons into the intermembrane space to create an electrochemical proton gradient, a driving force for ATP synthesis. Complex 1 is a complicated, multi-protein, L-shaped complex composed of at least 45 different subunits and located in the mitochondrial inner membrane. NDUF54 (NADH dehydrogenase (ubiquinone) Fe-S protein 4), also known as AQDQ or CI-18 (Complex I-18kDa protein), belongs to the Complex I NDUF54 subunit family. NDUF54 localizes to the matrix side of the inner membrane of the mitochondrion and functions as an accessory subunit of Complex I. Mutations in the gene encoding NDUF54 can result in Complex I mitochondrial respiratory chain deficiency. Patients with this deficiency may exhibit cardiomyopathy, myopathy, liver failure and neurological disorders.

References

Note: This product is for in vitro research use only