Ndufs4 Conjugated Antibody

Catalog No: #C49972

Package Size: #C49972-AF350 100ul #C49972-AF405 100ul #C49972-AF488 100ul #C49972-AF555 100ul #C49972-AF594 100ul #C49972-AF647 100ul #C49972-AF680 100ul #C49972-AF750 100ul #C49972-Biotin 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Ndufs4 Conjugated Antibody
Host Species	Rabbit
Clonality	Monoclonal
Species Reactivity	Hu, Ms, Rt
Immunogen Description	Recombinant protein within human Ndufs4 aa 43-175.
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
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;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Calculated MW	20 kDa
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

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. NDUFS4 (NADH dehydrogenase (ubiquinone) Fe-S protein 4), also known as AQDQ or CI-18 (Complex I-18kDa protein), belongs to the Complex I NDUFS4 subunit family. NDUFS4 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 NDUFS4 can result in Complex I mitochondrial respiratory chain deficiency. Patients with this deficiency may exhibit cardiomyopathy, myopathy, liver failure and neurological disorders.

Note: This product is for in vitro research use only