

MT-ND6 Conjugated Antibody

Catalog No: #C37742

Package Size: #C37742-AF350 100ul #C37742-AF405 100ul #C37742-AF488 100ul
 #C37742-AF555 100ul #C37742-AF594 100ul #C37742-AF647 100ul
 #C37742-AF680 100ul #C37742-AF750 100ul #C37742-Biotin 100ul

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Description

Product Name	MT-ND6 Conjugated Antibody
Host Species	Rabbit
Clonality	Polyclonal
Species Reactivity	Hu
Specificity	The antibody detects endogenous levels of total MT-ND6 protein.
Immunogen Description	Synthetic peptide corresponding to a region derived from internal residues of human mitochondrially encoded NADH dehydrogenase 6
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	MTND6; ND6
Accession No.	Swiss-Prot#:P03923NCBI Gene ID:4541NCBI Protein#:NP_071328
Uniprot	P03923
GeneID	4541;
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
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

NADH:ubiquinone oxidoreductase (complex I) is an extremely complicated multiprotein complex located in the inner mitochondrial membrane. Human complex I is important for energy metabolism because its main function is to transport electrons from NADH to ubiquinone, which is accompanied by translocation of protons from the mitochondrial matrix to the intermembrane space. Human complex I appears to consist of 41 subunits. A small number of complex I subunits are the products of mitochondrial genes (subunits 1-7), while the remainder are nuclear encoded and imported from the cytoplasm. The significance of NADH dehydrogenase subunit 6 (ND6) is rapidly becoming increasingly apparent as many mutations leading to amino acid changes in this subunit are associated with known mitochondrial diseases.

Note: This product is for in vitro research use only