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NDUFS2 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP9769c

Specification

NDUFS2 Antibody (Center) Blocking Peptide - Product Information

Primary Accession O75306

NDUFS2 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 4720

Other Names
NADH dehydrogenase [ubiquinone] iron-sulfur protein 2, mitochondrial, Complex I-49kD, CI-49kD, NADH-ubiquinone oxidoreductase 49 kDa subunit, NDUFS2

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

NDUFS2 Antibody (Center) Blocking Peptide - Protein Information

Name NDUFS2

Function
Core subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) which catalyzes electron transfer from NADH through the respiratory chain, using ubiquinone as an electron acceptor (PubMed:30922174, PubMed:22036843). Essential for the catalytic activity of complex I (PubMed:30922174, PubMed:22036843). Essential for the assembly of complex I (By similarity). Redox- sensitive, critical component of the oxygen-sensing pathway in the pulmonary vasculature which plays a key role in acute pulmonary oxygen- sensing and hypoxic pulmonary vasoconstriction (PubMed:30922174). Plays an important role in carotid body sensing of hypoxia (By similarity). Essential for glia-like neural stem and progenitor cell proliferation, differentiation and subsequent oligodendrocyte or neuronal maturation (By similarity).

Cellular Location
Mitochondrion inner membrane; Peripheral membrane protein {ECO:0000250|UniProtKB:Q641Y2};

Matrix side {ECO:0000250|UniProtKB:Q641Y2}

NDUFS2 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

NDUFS2 Antibody (Center) Blocking Peptide - Images

NDUFS2 Antibody (Center) Blocking Peptide - Background

NDUFS2 is a core subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (complex I). Mammalian mitochondrial complex I is composed of at least 43 different subunits, 7 of which are encoded by the mitochondrial genome, and the rest are the products of nuclear genes. The iron-sulfur protein fraction of complex I is made up of 7 subunits, including this gene product. Complex I catalyzes the NADH oxidation with concomitant ubiquinone reduction and proton ejection out of the mitochondria.

NDUFS2 Antibody (Center) Blocking Peptide - References

Saada, A., et al. Am. J. Hum. Genet. 84(6):718-727(2009)Wang, L., et al. Cancer Epidemiol. Biomarkers Prev. 17(12):3558-3566(2008)Starr, J.M., et al. Mech. Ageing Dev. 129(12):745-751(2008)Ban, M., et al. PLoS ONE 3 (8), E2891 (2008) Triepels, R.H., et al. J. Biol. Chem. 276(12):8892-8897(2001)