

Product Information

MemDX™ Membrane Protein Human NDUFA12 (NADH:ubiquinone oxidoreductase subunit A12) for Antibody Discovery

Cat. No.: **MP0761X**

This product is for research use only and is not intended for diagnostic use.

This product is a 41.58 kDa Human NDUFA12 membrane protein expressed in *in vitro* wheat germ expression system. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

NDUFA12

Protein Length

Full-length

Molecular Weight

41.58 kDa

Sequence

MELVQVLKRGLQQITGHGGLRGYLRVFFRTNDAKVGTLVGEDKYGNKYYEDNKQFFGRHRWVYTTMNGKNTFWDVDGSMVP

Product Description

Application

Enzyme-linked Immunoabsorbent Assay, Western Blot (Recombinant protein), Antibody Production, Protein Array

Expression Systems

in vitro wheat germ expression system

Tag

GST-tag at N-terminal

Form

Liquid

Purification

Glutathione Sepharose 4 Fast Flow

Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer

Storage

Store at +4°C for up to one week or several months at -80°C

Target

Target Protein

NDUFA12

Full Name

NADH:ubiquinol oxidoreductase subunit A12

Introduction

This gene encodes a protein which is part of mitochondrial complex 1, part of the oxidative phosphorylation system in mitochondria. Complex 1 transfers electrons to ubiquinone from NADH which establishes a proton gradient for the generation of ATP. Mutations in this gene are associated with Leigh syndrome due to mitochondrial complex 1 deficiency. Pseudogenes of this gene are located on chromosomes 5 and 13. Alternative splicing results in multiple transcript variants.

Alternative Names

B17.2; DAP13; MC1DN23; NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 12; 13 kDa differentiation-associated protein; CI-B17.2; NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 12; NADH-ubiquinone oxidoreductase subunit B17.2; complex I B17.2 subunit; CIB17.2; NADH-ubiquinone oxidoreductase subunit B17.2

Gene ID

[55967](#)

UniProt ID

[Q9UI09](#)