

Product Information

MemDX™ Membrane Protein Human MTHFD2 (Methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2, methenyltetrahydrofolate cyclohydrolase) for Antibody Discovery

Cat. No.: **MP0726X**

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

This product is a 61.93 kDa Human MTHFD2 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

MTHFD2

Protein Length

Full-length

Molecular Weight

61.93 kDa

Sequence

SLRLRPFHLAAVRNEAVVISGRKLAQQIKQEVQRQVEEWWASGNKRPHLSVILVGENPASHSYVLNKTRAAAVVGINSETIMKPASIS

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

MTHFD2

Full Name

Methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2, methenyltetrahydrofolate cyclohydrolase

Introduction

This gene encodes a nuclear-encoded mitochondrial bifunctional enzyme with methylenetetrahydrofolate dehydrogenase and methenyltetrahydrofolate cyclohydrolase activities. The enzyme functions as a homodimer and is unique in its absolute requirement for magnesium and inorganic phosphate. Formation of the enzyme-magnesium complex allows binding of NAD. Alternative splicing results in two different transcripts, one protein-coding and the other not protein-coding. This gene has a pseudogene on chromosome 7

Alternative Names

NMDMC

Gene ID

[10797](#)

UniProt ID

[P13995](#)