SUITE 203, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-416-1478 Fax: 1-631-207-8356
Email: info@creative-biolabs.com
www.creative-biolabs.com

Product Information

MemDX™ Membrane Protein Human SLC25A19 (Solute carrier family 25 member 19) for Antibody Discovery

Cat. No.: **MP1183X**
This product is for research use only and is not intended for diagnostic use.

This product is a 60.94 kDa Human SLC25A19 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
SLC25A19

Protein Length
Full-length

Molecular Weight
60.94 kDa

TMD
6

Sequence
MVGYDPKPDGRNNTKFQVAVAGSVSGLVTRALISPFDVIKIRFQLQHERLSRSDPSAKYHGILQASRQILQEEGPTAFWKGHVPAQI

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

Protein Format
Liposome

Form

Liquid

Purification

Glutathione Sepharose 4 Fast Flow

Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0

Storage

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

Target

Target Protein

SLC25A19

Full Name

Solute carrier family 25 member 19

Introduction

This gene encodes a mitochondrial protein that is a member of the solute carrier family. Although this protein was initially thought to be the mitochondrial deoxynucleotide carrier involved in the uptake of deoxynucleotides into the matrix of the mitochondria, further studies have demonstrated that this protein instead functions as the mitochondrial thiamine pyrophosphate carrier, which transports thiamine pyrophosphates into mitochondria. Mutations in this gene cause microcephaly, Amish type, a metabolic disease that results in severe congenital microcephaly, severe 2-ketoglutaric aciduria, and death within the first year. Multiple alternatively spliced variants, encoding the same protein, have been identified for this gene.

Alternative Names

DNC; TPC; MUP1; MCPHA; THMD3; THMD4; mitochondrial thiamine pyrophosphate carrier; mitochondrial uncoupling protein 1; solute carrier family 25 (mitochondrial deoxynucleotide carrier), member 19; solute carrier family 25 (mitochondrial thiamine pyrophosphate carrier), member 19

Gene ID

60386

UniProt ID

Q9HC21

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