

Product Information

MemDX™ Membrane Protein Human MCOLN1 (Mucolipin 1) for Antibody Discovery

Cat. No.: **MP0690X**

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

This product is a 91.4 kDa Human MCOLN1 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

MCOLN1

Protein Length

Full-length

Molecular Weight

91.4 kDa

TMD

6

Sequence

MTAPAGPRGSETERLLTPNPGYGTQAGPSPAPPTPPEEEDLRRRLKYFFMSPCDKFRAKGRKPCKLMLQVVKILVTVQLILFGLS

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**

MCOLN1

Full Name

Mucolipin 1

Introduction

This gene encodes a member of the transient receptor potential (TRP) cation channel gene family. The transmembrane protein localizes to intracellular vesicular membranes including lysosomes, and functions in the late endocytic pathway and in the regulation of lysosomal exocytosis. The channel is permeable to Ca(2+), Fe(2+), Na(+), K(+), and H(+), and is modulated by changes in Ca(2+) concentration. Mutations in this gene result in mucopolipidosis type IV

Alternative Names

ML1; ML4; MG-2; MLIV; MST080; TRPML1; MSTP080; TRP-ML1; TRPM-L1

Gene ID

[57192](#)

UniProt ID

[Q9GZU1](#)