

Product Information

MemDX™ Membrane Protein Human PLSCR3 (Phospholipid scramblase 3; PL scramblase 3; Ca^{2+} -dependent phospholipid scramblase 3) for Antibody Discovery

Cat. No.: **MP1031X**

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

This product is a 58.19 kDa Human PLSCR3 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

PLSCR3

Protein Length

Full-length

Molecular Weight

58.19 kDa

TMD

1

Sequence

MAGYLPKPGYAPSPPPYPVTPGYPEPALHPGPGQAPVPAQVPAPAPGFALFPSPGPVALGSAAPFLPLPGVPSGLEFLVQIDQIL

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, 150 mM NaCl, 0.05% Brij35, 1 mM DTT, 10% glycerol, pH7.5

Storage

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

Target**Target Protein**

PLSCR3

Full Name

Phospholipid scramblase 3; PL scramblase 3; Ca^{2+} -dependent phospholipid scramblase 3

Introduction

Catalyzes calcium-induced ATP-independent rapid bidirectional and non-specific movement of the phospholipids (lipid scrambling or lipid flip-flop) between the inner and outer membrane of the mitochondria. Plays an important role in mitochondrial respiratory function, morphology, and apoptotic response. Mediates the translocation of cardiolipin from the mitochondrial inner membrane to outer membrane enhancing t-Bid induced cytochrome c release and apoptosis. Enhances TNFSF10-induced apoptosis by regulating the distribution of cardiolipin in the mitochondrial membrane resulting in increased release of apoptogenic factors and consequent amplification of the activity of caspases. Regulates cardiolipin de novo biosynthesis and its resynthesis.

Alternative Names

phospholipid scramblase 3; PL scramblase 3; Ca^{2+} -dependent phospholipid scramblase 3

Gene ID

[57048](#)

UniProt ID

[Q9NRY6](#)