

Product Information

MemDX™ Membrane Protein Human PROM1 (Prominin 1) with N-GST tag for Antibody

Discovery

Cat. No.: **MP1046X**

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

This product is a 122.7 kDa Human PROM1 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

PROM1

Protein Length

Full-length

Molecular Weight

122.7 kDa

TMD

5

Sequence

MALVLGSLLLGLCGNSFSGGQPSSTDAPKAWNYELPATNYETQDSHKAGPIGILFELVHIFLYVVQPRDFPEDTLRKFLQKAYESK

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**

PROM1

Full Name

Prominin 1

Introduction

This gene encodes a pentaspan transmembrane glycoprotein. The protein localizes to membrane protrusions and is often expressed on adult stem cells, where it is thought to function in maintaining stem cell properties by suppressing differentiation. Mutations in this gene have been shown to result in retinitis pigmentosa and Stargardt disease. Expression of this gene is also associated with several types of cancer. This gene is expressed from at least five alternative promoters that are expressed in a tissue-dependent manner. Multiple transcript variants encoding different isoforms have been found for this gene.

Alternative Names

RP41; AC133; CD133; MCDR2; STGD4; CORD12; PROML1; MSTP061; prominin-1; antigen AC133; hProminin; hematopoietic stem cell antigen; prominin-like protein 1

Gene ID

[8842](#)

UniProt ID

[Q43490](#)