

Product Information

MemDX™ Membrane Protein Human PTPRA (Protein tyrosine phosphatase receptor type A) expressed by *in vitro* wheat germ expression system for Antibody Discovery

Cat. No.: **MP1065X**

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

This product is a 112.97 kDa Human PTPRA 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

PTPRA

Protein Length

Full-length

Molecular Weight

112.97 kDa

TMD

1

Sequence

MDSWFILVLLGSGLICVSANNATTVAPSVGITRLINSSTAEPVKEEAKTSNPTSSLTSLSVAPTFSPNITLGPTYLTTVNSSDSDNGTTF

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**

PTPRA

Full Name

Protein tyrosine phosphatase receptor type A

Introduction

The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP contains an extracellular domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus represents a receptor-type PTP. This PTP has been shown to dephosphorylate and activate Src family tyrosine kinases, and is implicated in the regulation of integrin signaling, cell adhesion and proliferation. Three alternatively spliced variants of this gene, which encode two distinct isoforms, have been reported.

Alternative Names

LRP; HLPR; PTPA; HEPTP; HPTPA; RPTPA; PTPRL2; HPTPalpha; R-PTP-alpha; receptor-type tyrosine-protein phosphatase alpha; Leukocyte common antigen-related peptide (protein tyrosine phosphate); PTPLCA-related phosphatase; PTPase-alpha; protein tyrosine phosphatase, receptor type, alpha polypeptide; protein-tyrosine phosphatase alpha; tyrosine phosphatase alpha

Gene ID

[5786](#)

UniProt ID

[P18433](#)