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Product Information

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

Cat. No.: **MP1067X**
This product is for research use only and is not intended for diagnostic use.

This product is a 91.41 kDa Human PTPRO 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
PTPRO

Protein Length
Full-length

Molecular Weight
91.41 kDa

TMD
1

Sequence
MGHLPTGIHGARRLLPLLWLFVLFKNATAFHVTVQDDNNIVVSLEASDVISPASVYVVKITGESKNYFFEFEEFNSTLPPPVIFKASYH

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

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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

PTPRO

Full Name

Protein tyrosine phosphatase receptor type O

Introduction

This gene encodes a member of the R3 subtype family of receptor-type protein tyrosine phosphatases. These proteins are localized to the apical surface of polarized cells and may have tissue-specific functions through activation of Src family kinases. This gene contains two distinct promoters, and alternatively spliced transcript variants encoding multiple isoforms have been observed. The encoded proteins may have multiple isoform-specific and tissue-specific functions, including the regulation of osteoclast production and activity, inhibition of cell proliferation and facilitation of apoptosis. This gene is a candidate tumor suppressor, and decreased expression of this gene has been observed in several types of cancer.

Alternative Names

NPHS6; PTPU2; GLEPP1; PTP-OC; PTP-U2; PTPROT; R-PTP-O; receptor-type tyrosine-protein phosphatase O; PTP phi; PTPase U2; glomerular epithelial protein 1; osteoclastic transmembrane protein-tyrosine phosphatase; phosphotyrosine phosphatase U2; protein tyrosine phosphatase PTP-U2

Gene ID

5800

UniProt ID

Q16827

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