SUITE 203, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-416-1478 Fax: 1-631-207-8356
Email: info@creative-biolabs.com
www.creative-biolabs.com

Product Information

MemDX™ Membrane Protein Human PEX5 (Peroxisomal biogenesis factor 5) for Antibody Discovery

Cat. No.: **MP1014X**
This product is for research use only and is not intended for diagnostic use.

This product is a 95.15 kDa Human PEX5 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
PEX5

Protein Length
Full-length

Molecular Weight
95.15 kDa

Sequence
MAMRELVEAECGGANPLMKLAGHFTQDKALRQEGLRPGPWPPGAPASEAASKPLGVASEDELVAEFLQDQNAPLVSRAPQTFKM

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

PEX5

Full Name

Peroxisomal biogenesis factor 5

Introduction

The product of this gene binds to the C-terminal PTS1-type tripeptide peroxisomal targeting signal (SKL-type) and plays an essential role in peroxisomal protein import. Peroxins (PEXs) are proteins that are essential for the assembly of functional peroxisomes. The peroxisome biogenesis disorders (PBDs) are a group of genetically heterogeneous autosomal recessive, lethal diseases characterized by multiple defects in peroxisome function. The peroxisomal biogenesis disorders are a heterogeneous group with at least 14 complementation groups and with more than 1 phenotype being observed in cases falling into particular complementation groups. Although the clinical features of PBD patients vary, cells from all PBD patients exhibit a defect in the import of one or more classes of peroxisomal matrix proteins into the organelle. Defects in this gene are a cause of neonatal adrenoleukodystrophy (NALD), a cause of Zellweger syndrome (ZWS) as well as may be a cause of infantile Refsum disease (IRD). Alternatively spliced transcript variants encoding different isoforms have been identified.

Alternative Names

PXR1; PBD2A; PBD2B; PTS1R; RCDP5; PTS1-BP; peroxisomal biogenesis factor 5; PTS1 receptor; peroxin-5; peroxisomal C-terminal targeting signal import receptor; peroxisomal import receptor 5; peroxisomal targeting signal 1 (SKL type) receptor; peroxisomal targeting signal 1 receptor; peroxisomal targeting signal import receptor; peroxisomal targeting signal receptor 1; peroxisome receptor 1

Gene ID

5830

UniProt ID

P50542