

Product Information

MemDX™ Membrane Protein Human ABO (ABO, alpha 1-3-N-acetylgalactosaminyltransferase and alpha 1-3-galactosyltransferase) for Antibody

Discovery

Cat. No.: **MP0927J**

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

This product is a 40.8 kDa Human ABO membrane protein expressed in HEK293T. 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

ABO

Protein Length

Full-length

Protein Class

Secreted Protein, Transmembrane

Molecular Weight

40.8 kDa

TMD

1

Sequence

MAEVLRTLAKPKCHALRPMILFLIMLVLVLFYGVLSRSLMPGSLERGFCAVREPDHLQRVSLPRM
VYPQPKVLTPCRKDVLVVTPWLAPIVWEGTFNIDILNEQFRLQNTTIGLTVFAIKKYVAFLKLFLETAE
KHFMVGHVRVHYVFTDQPAAPRVTLGTGRQLSVLEVGAYKRWQDVSMRRMEMISDFCERRFLSEVDYL
VCVDVDMEFRDHVGVEILTPLFGTLHPSFYGSSREAFYERRPQSQAYIPKDEGDFYYMGAFFGGSVQE
VQRLTRACHQAMMVDQANGIEAVVHDESHLNKYLLRHKPTKVLSPPEYLWDQQLGWPAVLRLKLRFTAVP
KNHQAVRNP

Product Description

Expression Systems

HEK293T

Tag

C-Myc/DDK

Form

Liquid

Purification

Anti-DDK affinity column followed by conventional chromatography steps

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer

25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

Storage

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

Target**Target Protein**

ABO

Full Name

ABO, alpha 1-3-N-acetylgalactosaminyltransferase and alpha 1-3-galactosyltransferase

Introduction

This gene encodes proteins related to the first discovered blood group system, ABO. Variation in the ABO gene (chromosome 9q34.2) is the basis of the ABO blood group, thus the presence of an allele determines the blood group in an individual. The 'O' blood group is caused by a deletion of guanine-258 near the N-terminus of the protein which results in a frameshift and translation of an almost entirely different protein. Individuals with the A, B, and AB alleles express glycosyltransferase activities that convert the H antigen into the A or B antigen. Other minor alleles have been found for this gene.

Alternative Names

A3GALNT; A3GALT1; GTB; NAGAT

Gene ID

[28](#)

UniProt ID

[P16442](#)