

Recombinant Human ABO Protein, His-tagged

Cat. No. ABO-26280TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ABO(54-354aa) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	54-354aa
Description	ABO, also known as NAGAT, belongs to the glycosyltransferase 6 family. This protein is the basis of the ABO blood group system and related to the first discovered blood group system, ABO. Which allele is present in an individual determines the blood group. The histo-blood group ABO involves three carbohydrate antigens: A, B, and H. A, B, and AB individuals express a glycosyltransferase activity that converts the H antigen to the A antigen (by addition of uDP-GalNAc) or to the B antigen (by addition of uDP-Gal), whereas O individuals lack such activity.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 20% glycerol, 200mM NaCl
Molecular Mass	37.4kDa (322aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MIKKYVAFLKL FLETAEKHFM VGHRVHYVVF TDQPAAVPRV TLGTGRQLSV LEVRAYKRWQ DVSMRRMEMI SDFCERRFLS EVDYLCVDVAVREPDHLQ RVSLPRMVYP QPKVLTPCRK DVLVVTPWLA

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PIVWEGTFNI DILNEQFRLQ NTTIGLTVFADMEFRDHVGV EILTPLFGTL
 HPGFYGSSRE AFTYERRPQS QAYIPKDEGD FYYLGGFFGG SVQEVQRLTR
 ACHQAMMVDQ ANGIEAVWHDESHLNKYLLR HKPTKVLSPE YLWDQQLLGW
 PAVLRKLRFT AVPKNHQAVR NP

Purity > 85% by SDS - PAGE

Storage Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 0.5mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name ABO ABO blood group (transferase A, alpha 1-3-N-acetylgalactosaminyltransferase; transferase B, alpha 1-3-galactosyltransferase) [Homo sapiens]

Official Symbol ABO

Synonyms ABO; ABO blood group (transferase A, alpha 1-3-N-acetylgalactosaminyltransferase; transferase B, alpha 1-3-galactosyltransferase); histo-blood group ABO system transferase; A3GALNT; A3GALT1; ABO glycosyltransferase; histo-blood group A transferase; histo-blood group B transferase; histo-blood group A2 transferase; B(A) alpha-1,3-galactosyltransferase; fucosylglycoprotein 3-alpha-galactosyltransferase; fucosylglycoprotein alpha-N-acetylgalactosaminyltransferase; glycoprotein-fucosylgalactoside alpha-galactosyltransferase; glycoprotein-fucosylgalactoside alpha-N-acetylgalactosaminyltransferase; GTB; NAGAT;

Gene ID 28

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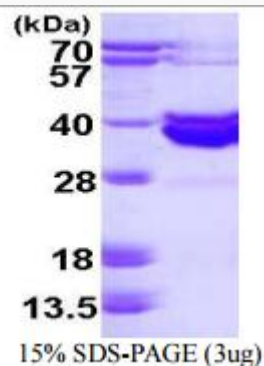
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mRNA Refseq NM_020469

Protein Refseq NP_065202

UniProt ID P16442



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