

## Recombinant Human ABO Protein, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human ABO(54-354aa) fused with His tag at N-terminal was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	54-354aa
<b>Description</b>	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.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 20% glycerol, 200mM NaCl
<b>Molecular Mass</b>	37.4kDa (322aa), confirmed by MALDI-TOF
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSH MIKKYVAFLKL FLETAEKHFV VGHRVHYYVF TDQPAAVPRV TLGTGRQLSV LEVRAYKRWQ DVSMRRMEMI SDFCERRFLS EVDYLVCVDVAVREPDHLQ RVSLPRMVYP QPKVLTPCRK DVLVVTPWLA

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PIVWEGTFNI DILNEQFRLQ NTTIGLTVFADMEFRDHVGV EILTPLFGTL  
 HPGFYGSSRE AFTYERRPQS QAYIPKDEGD FYYLGGFFGG SVQEVQRLTR  
 ACHQAMMVDQ ANGIEAVWHDESHLNKYLLR HKPTKVLSPY 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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mRNA Refseq [NM\\_020469](#)

Protein Refseq [NP\\_065202](#)

UniProt ID [P16442](#)

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