

Recombinant Human ABO Protein (AA 65-354), N-6×His/GFP tagged

Cat. No. ABO-29H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ABO Protein (AA 65-354) with N-6×His/GFP tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	AA 65-354
Description	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.
Molecular Mass	~66 kDa
AA Sequence	SLPRMVYPQPKVLTPCRKDVLVVTPWLAPIVWEGTFNIDILNEQFRLQNTTIGLTVFAI KKYVAFLLKLFLETAEKHFVGHVRVHYVFTDQPAAVPRVTLGTGRQLSVLEVGAYK RWQDVSMRRMEMISDFCERRFLSEVDYLCVDVDMEFRDHVGV EILTPLFGTLHPS FYGSSREAFTYERRPQSQAYIPKDEGDFYYMGAFFGGSVQEVQRLTRACHQAMMV

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	DQANGIEAVWHDESHLNKYLLRHKPTKVLSPEYLWDQQLLGWPAVLRKLRFTAVPK NHQAVRNP
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by Coomassie Blue stain.
Stability	6 months if stored at -80 centigrade. Avoid repeated freeze thaws.
Concentration	1 mg/mL
Storage Buffer	Supplied as a 0.2 µm filtered solution in 20mM HEPES pH 7.0 and 100mM NaCl buffer, with 10% Glycerol.
Preservative	0.05 % NaN ₃
Shipping	This product is shipped as 0.2µm filtered product on dry ice.

GENE INFORMATION

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

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alpha-N-acetylgalactosaminyltransferase; GTB; NAGAT;

Gene ID	28
mRNA Refseq	NM_020469
Protein Refseq	NP_065202
MIM	110300
UniProt ID	P16442

SDS-PAGE

