

Recombinant Human ABO Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ABO-2754H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ABO MS Standard C13 and N15-labeled recombinant protein (NP_065202) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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	40.9 kDa
AA Sequence	Tag(s)MAEVLRTLAKGPKCHALRPMILFLIMLVLVLFYGYGVLSRSLMPGSLERGFCA AVREPDHLQRVSLPRMVYPQPKVLTPCRKDVLPVTPWLAPIVWEGTFNIDILNEQFR LQNTTIGLTVFAIKKYVAFLKLFLETAEKHFVGHVHYYVFTDQPAAPRVTLGTGR QLSVLEVGAYKRWQDVSMRRMEMISDFCERRFLSEVDYLVCDVDMEFRDHVGVE ILTPLFGTLHPSFYGSSREAFTYERRPQSQAYIPKDEGDFYYMGAFFGGSVQEVQRL

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

TRACHQAMMVDQANGIEAVWHDESHLNKYLLRHKPTKVLSP EYLWDQQLGWPAV
LRKLRFTAVPKNHQAVRNPTTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name ABO ABO, alpha 1-3-N-acetylgalactosaminyltransferase and 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 alpha-N-acetylgalactosaminyltransferase; GTB; NAGAT;

Gene ID 28

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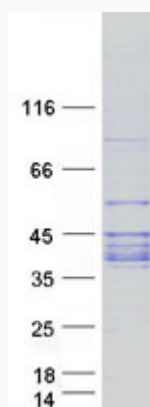
mRNA Refseq NM_020469

Protein Refseq NP_065202

MIM 110300

UniProt ID P16442

SDS-PAGE



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