

## Product datasheet for **TP310203**

### ABO (NM\_020469) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human ABO blood group (transferase A, alpha 1-3-N-acetylgalactosaminyltransferase; transferase B, alpha 1-3-galactosyltransferase) (ABO), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>Peptide sequence encoded by RC210203 Blue=ORF Red=Cloning site Green=Tag(s)

MAEVLRTLAKPKCHALRPMILFLIMLVLVLFYGVLSRSLMPGSLERGFCAVREPDHLQRVSLPRM  
VYPQPKVLTPCRKDLVWTPWLAPIWEGTFNIDILNEQFRLQNTTIGLTVFAIKKYVAFKLFLLETAE  
KHFVVGHRVHYVFTDQPAVPRVTLGTGRQLSVLEVAYKRWQDVSMRRMEMISDFCERRFLSEVDYL  
VCVDVDMEFRDHVGVIEILTPLFGTLHPSFYGSSREAFYERRPQSQAYIPKDEGDFYMGAFFGGSVQE  
VQRLTRACHQAMMVDQANGIEAVWHDESHLNKYLLRHKPTKVLSPPEYLDWQQLLWPAVLRKLRFTAV  
P  
KNHQAVRNP  
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Recombinant protein using RC210203 also available, [TP310203](#)

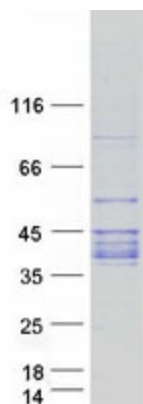
Tag:	C-Myc/DDK
Predicted MW:	40.8 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_065202</a>
<b>Locus ID:</b>	28
<b>UniProt ID:</b>	<a href="#">P16442</a>
<b>RefSeq Size:</b>	1580
<b>Cytogenetics:</b>	9q34.2
<b>RefSeq ORF:</b>	1062
<b>Synonyms:</b>	A3GALNT; A3GALT1; GTB; NAGAT
<b>Summary:</b>	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. This locus has been identified as a susceptibility locus for severe coronavirus disease 2019 (COVID-19) by genome-wide association study. [provided by RefSeq, Aug 2020]
<b>Protein Families:</b>	Secreted Protein, Transmembrane
<b>Protein Pathways:</b>	Glycosphingolipid biosynthesis - lacto and neolacto series, Metabolic pathways

### Product images:



Coomassie blue staining of purified ABO protein (Cat# TP310203). The protein was produced from HEK293T cells transfected with ABO cDNA clone (Cat# [RC210203]) using MegaTran 2.0 (Cat# [TT210002]).