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Product datasheet for PH310203

ABO (NM_020469) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ABO MS Standard C13 and N15-labeled recombinant protein (NP_065202)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC210203
Predicted MW:	40.9 kDa
Protein Sequence:	>Peptide sequence encoded by RC210203 Blue=ORF Red=Cloning site Green=Tag(s) MAEVLRTLAGKPKCHALRPMILFLIMLVLVLFGYGVLSPRSLMPGSLERGFCMAVREPDHLQRVSLPRM VYPQPKVLTPCRKDVLVVTPWLAPIVWEGTFNIDILNEQFRLQNTTIGLTVFAIKKYVAFLKLFLETAE KHFMVGHRVHYYVFTDQPAAVPRVTLGTGRQLSVLEVGAYKRWQDVSMRRMEMISDFCERRFLSEVDYL VCVDVDMEFRDHVGVEILTPLFGTLHPSFYGSSREAFTYERRPQSQAYIPKDEGDFYYMGAFFGGSVQE VQRLTRACHQAMMVDQANGIEAVWHDESHLNKYLLRHKPTKVLSPEYLWDQQLLGWPAVLRKLRFTAVP KNHQAVRNP TRTRPLEQKLISEEDLAANDILDYKDDDDKV Recombinant protein using RC210203 also available, TP310203
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_065202
RefSeq Size:	1580
RefSeq ORF:	1062
Synonyms:	A3GALNT; A3GALT1; GTB; NAGAT

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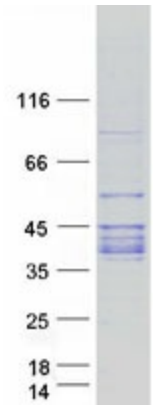
Locus ID:	28
UniProt ID:	P16442, A0A089QDC1
Cytogenetics:	9q34.2
Summary:	This gene encodes proteins related to the first discovered blood group system, ABO. Variation in the ABO gene (chromosome 9q34.2) is the basis of the ABO blood group, thus the presence of an allele determines the blood group in 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]
Protein Families:	Secreted Protein, Transmembrane
Protein Pathways:	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]).

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