

## Histo-blood group ABO/ABO Protein, Human (HEK293, Fc)

<b>Cat. No.:</b>	HY-P73926
<b>Synonyms:</b>	Histo-blood group ABO system transferase; ABO; NAGAT
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	ADX99264 (R63-P354)
<b>Gene ID:</b>	28
<b>Molecular Weight:</b>	Approximately 62-68 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> RVSLPRMVYP   QPKVLTPCRK   DVLVVTPLWA   PIVWEGTFNI DILNEQFRLQ   NTTIGLTVFA   IKKYVAF LKL   FLETAEKHFM VGH RVHYVVF   TDQPAAVPRV   TLGTGRQLSV   LEVGAYKRWQ DVS MRMEMI   SDFCERRFLS   EVDYLVCVDV   DMEFRDHVGV EIL TPLFGTL   HPSFYGSSRE   AFTYERRPQS   QAYIPKDEGD FYYMGAFFGG   SVQEVQRLTR   ACHQAMMVDQ   ANGIEAVWHD ESH LNKYLLR   HKPTKVLSP E   YLWDQQLLGW   PAVLRKLRFT AVPKNHQAVR   NP </pre>
<b>Biological Activity</b>	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
<b>Appearance</b>	Lyophilized powder
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in PBS. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	Tissue blood group ABO system transferase is an enzyme encoded by human ABO gene with glycosyltransferase activity. It is commonly expressed in many tissues and cell types. ABO determines an individual's ABO blood type by modifying
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oligosaccharides on cell surface glycoproteins. Differences in protein sequences between individuals determine the type of modification and blood type. The ABO gene also contains one of 27 SNPs associated with an increased risk of coronary artery disease. Genetically determined ABO blood groups in humans are associated with an increased risk of various infectious and non-communicable diseases. ABO blood group can be used as tumor marker<sup>[1][2][3]</sup>.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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