



## BGAT rabbit pAb

<b>Catalog No</b>	YP-Ab-07933
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human; Mouse
<b>Applications</b>	WB
<b>Gene Name</b>	ABO
<b>Protein Name</b>	BGAT
<b>Immunogen</b>	Synthesized peptide derived from human BGAT AA range: 222-272
<b>Specificity</b>	This antibody detects endogenous levels of BGAT at Human/Mouse
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.47% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
<b>Dilution</b>	WB 1:500-2000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	Histo-blood group ABO system transferase (Fucosylglycoprotein 3-alpha-galactosyltransferase) (Fucosylglycoprotein alpha-N-acetylgalactosaminyltransferase) (Glycoprotein-fucosylgalactoside alpha-N-acetylgalactosaminyltransferase) (EC 2.4.1.40) (Glycoprotein-fucosylgalactoside alpha-galactosyltransferase) (EC 2.4.1.37) (Histo-blood group A transferase) (A transferase) (Histo-blood group B transferase) (B transferase) (NAGAT) [Cleaved into: Fucosylglycoprotein alpha-N-acetylgalactosaminyltransferase soluble form]
<b>Observed Band</b>	38kD
<b>Cell Pathway</b>	Golgi apparatus, Golgi stack membrane; Single-pass type II membrane protein. Secreted. Membrane-bound form in trans cisternae of Golgi. Secreted into the body fluid.
<b>Tissue Specificity</b>	Blood,Human adenocarcinoma,PCR rescued clones,Peripheral,Peripheral blood,Peripheral lymphocytes,
<b>Function</b>	catalytic activity:UDP-galactose + alpha-L-fucosyl-(1->2)-D-galactosyl-R = UDP + alpha-D-galactosyl-(1->3)-(alpha-L-fucosyl-(1->2))-D-galactosyl-R.,catalytic activity:UDP-N-acetyl-D-galactosamine + glycoprotein-alpha-L-fucosyl-(1->2)-D-galactose = UDP + glycoprotein-N-acetyl-alpha-D-galactosaminyl-(1->3)-(alpha-L-fucosyl-(1->2))-D-g



alactose.,cofactor: Binds 1 manganese ion per subunit.,domain: The conserved DXD motif is involved in cofactor binding. The manganese ion interacts with the beta-phosphate group of UDP and may also have a role in catalysis.,function: This protein is the basis of the ABO blood group system. The histo-blood group ABO involves three carbohydrate antigens: A, B, and H. A, B, and AB individuals express a glycosyltransferase activity that converts the H antigen to the A antigen (by addition of UDP-GalNAc) or to the B antigen (by addition of UDP-Gal), whereas O individu

#### Background

This gene encodes proteins related to the first discovered blood group system, ABO. Which allele is present in an individual determines the blood group. 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. [provided by RefSeq, Jul 2008],

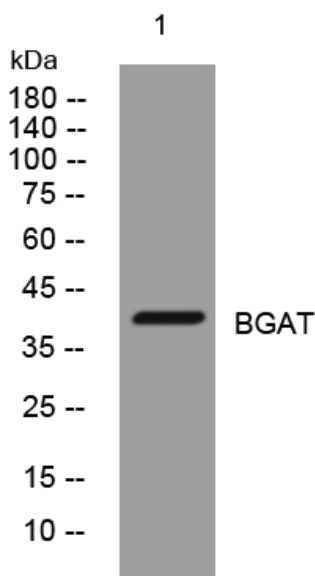
#### matters needing attention

Avoid repeated freezing and thawing!

#### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Western blot analysis of lysates from HeLa cells, primary antibody was diluted at 1:1000, 4° over night