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Blood Group Antigen Precursor Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58686

Specification

Blood Group Antigen Precursor Polyclonal Antibody - Product Information

Application	**IHC-P, IHC-F, IF, E**
Primary Accession	P16442
Reactivity	**Chimpanzee**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**41 KDa**
Physical State	**Liquid**
Immunogen	**KLH conjugated synthetic peptide derived from human Blood Group Antigen Precursor**
Epitope Specificity	**51-150/354**
Isotype	**IgG**
Purity	
affinity purified by Protein A	
Buffer	**0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.**
SUBCELLULAR LOCATION	**Golgi apparatus, Golgi stack membrane; Single-pass type II membrane protein. Secreted. Note=Membrane-bound form in trans cisternae of Golgi. Secreted into the body fluid.**
SIMILARITY	**Belongs to the glycosyltransferase 6 family.**
Post-translational modifications	**The soluble form derives from the membrane form by proteolytic processing.**
Important Note	**This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.**

Background Descriptions
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.

Blood Group Antigen Precursor Polyclonal Antibody - Additional Information

Gene ID 28

Other Names
Histo-blood group ABO system transferase, Fucosylglycoprotein 3-alpha-galactosyltransferase,

Fucosylglycoprotein alpha-N-acetylgalactosaminyltransferase, Glycoprotein-fucosylgalactoside alpha-N-acetylgalactosaminyltransferase, 2.4.1.40, Glycoprotein-fucosylgalactoside alpha-galactosyltransferase, 2.4.1.37, Histo-blood group A transferase, A transferase, Histo-blood group B transferase, B transferase, NAGAT, Fucosylglycoprotein alpha-N-acetylgalactosaminyltransferase soluble form, ABO

Dilution
IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>E~~N/A

Format
0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage
Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ℃.

Blood Group Antigen Precursor Polyclonal Antibody - Protein Information

Name ABO

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 individuals lack such activity.

Cellular Location
Golgi apparatus, Golgi stack membrane; Single- pass type II membrane protein. Secreted Note=Membrane-bound form in trans cisternae of Golgi. Secreted into the body fluid

Tissue Location
Expressed at high levels in testis. Also expressed in pancreas, uterus and lung and salivary gland

Blood Group Antigen Precursor Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Blood Group Antigen Precursor Polyclonal Antibody - Images