

Mouse Blood Group Antigen B Monoclonal Antibody | anti-ABO antibody

Blood Group Antigen B (CD173) Mouse Monoclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA62862	Mouse	Human. others-not known	Immunohistochemistry, Immunofluorescence

PRODUCT SYNONYMS

Blood Group Antigen B; Monoclonal Antibody; Blood Group Antigen B (CD173) Mouse Monoclonal Antibody; A transferase; ABO; B transferase; CD173; Fucosylglycoprotein 3-alpha-galactosyltransferase; Fucosylglycoprotein alpha-N-acetylgalactosaminyltransferase; Glycoprotein-fucosylgalactoside alpha-galactosyltransferase; Glycoprotein-fucosylgalactoside alpha-N-acetylgalactosaminyltransferase; Histo-blood group A transferase; Histo-blood group B transferase; NAGAT; anti-ABO antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human. others-not known
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	HEB-20
Specificity	The antibody HEB-20 reacts with human blood group B. The specificity of the antibody HEB-20 was confirmed by comparison of specificity and reactivity to standard reagent using >5,000 samples of blood. The MAb HEB-20 shows specific staining of erythrocytes and vascular epithelium of blood group B controls and no staining in group A controls. This MAb is applicable for tissue staining in tumor patients with blood groups B and AB. Blood group antigens are generally defined as molecules formed by sequential addition of saccharides to the carbohydrate side chains of lipids and proteins detected on erythrocytes and certain epithelial cells. The A, B and H antigens are reported to undergo modulation during malignant cellular transformation. Blood group related antigens represent a group of carbohydrate determinants carried on both glycolipids and glycoproteins. They are usually mucin type, and are detected on erythrocytes, certain epithelial cells, and in secretions of certain individuals. Sixteen genetically and biosynthetically distinct but inter related specificities belong to this group of antigens, including A, B, H, Lewis A, Lewis B, Lewis X, Lewis Y, and precursor type 1 chain antigens.
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	354
Applicable Applications for anti-ABO antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), Agglutination
Cellular Localization	Cell Surface
Immunogen	Mixture of erythrocytes of group B and glycoprotein fraction isolated from saliva of secretors with blood group B
Mol. Weight of Antigen	Multiple
Hu-Chromosome Location	9q34.2
Positive Control	KG1 cells or human colorectal carcinoma tissues.
Supplied As	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0ml
Preparation and Storage	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with Blood Group B
Monoclonal Antibody (HEB-20).

ADDITIONAL INFORMATION

References	Van-k J, Dr-malov- D, Smyslov- O, Nmec M, Viklick- V, Wisniewski K. Detection of blood group A antigen expression in human colon cancer using monoclonal antibodies with different specificities. Neoplasma. 1989;36(4):479-88
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NCBI AND UNIPROT INFORMATION

NCBI GI #	58331216
NCBI GeneID	28
NCBI Accession #	NP_065202.2
NCBI GenBank Nucleotide #	NM_020469.2
UniProt Accession #	P16442; O14758; Q14490; Q53I57; Q6ISD4; Q6KFZ2; Q70V27; Q99484; Q99485; Q9NY01; Q9UQ68; B0JDB9
NCBI Official Full Name	histo-blood group ABO system transferase
NCBI Official Synonym Full Names	ABO blood group (transferase A, alpha 1-3-N-acetylgalactosaminyltransferase; transferase B, alpha 1-3-galactosyltransferase)
NCBI Official Symbol	ABO
NCBI Official Synonym Symbols	GTB; NAGAT; A3GALNT; A3GALT1
NCBI Protein Information	histo-blood group ABO system transferase
UniProt Protein Name	Histo-blood group ABO system transferase
UniProt Gene Name	ABO
UniProt Synonym Gene Names	A transferase; B transferase
UniProt Entry Name	BGAT_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.