

**Blood Group Antigen A (CD173) Antibody - With BSA and Azide**  
**Mouse Monoclonal Antibody [Clone HE-10 ]**  
**Catalog # AH11359****Specification****Blood Group Antigen A (CD173) Antibody - With BSA and Azide - Product Information**

Application	IHC, IF
Primary Accession	<a href="#">P16442</a>
Other Accession	<a href="#">28, 654423</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgM, kappa
Calculated MW	Multiple KDa

**Blood Group Antigen A (CD173) Antibody - With BSA and Azide - 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

**Application Note**

IHC~~1:100~500  
IF~~1:50~200

**Storage**

Store at 2 to 8°C. Antibody is stable for 24 months.

**Precautions**

Blood Group Antigen A (CD173) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

**Blood Group Antigen A (CD173) Antibody - With BSA and Azide - 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 A (CD173) Antibody - With BSA and Azide - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Blood Group Antigen A (CD173) Antibody - With BSA and Azide - Images****Blood Group Antigen A (CD173) Antibody - With BSA and Azide - Background**

This MAb preferably reacts with determinants of chain A and H type 3 $\bar{A}$ (Gal1-3GalNAc-R) and 4 (Gal1-3GalNAc-R), but not with type 1 and 2 chain structures. It is not reactive with immuno-dominant A trisaccharide. This MAb is applicable for tissue staining in tumor patients with blood groups A and AB. It shows a highly heterogeneous reactivity in human colon tumor tissue and adjacent mucosa. 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.

**Blood Group Antigen A (CD173) Antibody - With BSA and Azide - References**

Nemec M et al. Murine monoclonal antibodies to human A erythrocytes: differential reactivity with N-acetyl-D-galactosamine. Vox Sang 52:125-8 (1987). | J. Vaňk et al. (1989) Detection of blood group A antigen expression in human colon cancer using monoclonal antibodies with different specificities. Neoplasma, 36: 479-487