

### 36-2406: Anti-Blood Group Antigen A (CD173) Monoclonal Antibody(Clone: HE-10)

|                                |   |
|--------------------------------|---|
| <b>Clonality :</b>             | Monoclonal  |
| <b>Clone Name :</b>            | HE-10   |
| <b>Application :</b>           | IF,IHC  |
| <b>Reactivity :</b>            | Human   |
| <b>Gene :</b>                  | ABO   |
| <b>Gene ID :</b>               | 28  |
| <b>Uniprot ID :</b>            | P16442  |
| <b>Alternative Name :</b>      | 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 |
| <b>Isotype :</b>               | Mouse IgM, kappa  |
| <b>Immunogen Information :</b> | Mixture of erythrocytes of blood group A and glyco protein fraction isolated from the saliva of secretors with blood group A  |

#### Description

This MAb preferably reacts with determinants of chain A and H type 3(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.

#### Product Info

|                            |  |
|----------------------------|--|
| <b>Amount :</b>            | 20 µg / 100 µg   |
| <b>Content :</b>           | 200 µg/ml of Ab Purified from Bioreactor Concentrate. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml. |
| <b>Storage condition :</b> | 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.                |

#### Application Note

Agglutination; Immunofluorescence (1-2ug/ml); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);

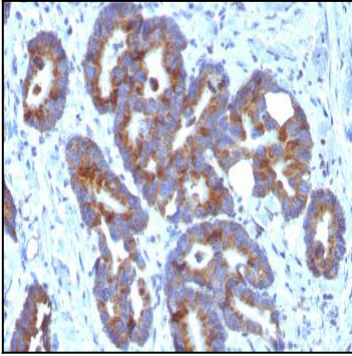


Fig. 1: Formalin-fixed, paraffin-embedded human Colorectal Carcinoma stained with Blood Group Antigen A Monoclonal Antibody (HE-10)