# Blood Group Antigen B (CD173) Antibody

Mouse Monoclonal Antibody [Clone HEB-20]

| Catalog No | Format | Size |
|---|---|---|
| 28-MSM7-P0 | Purified Ab with BSA and Azide at 200ug/ml | 20 ug |
| 28-MSM7-P1 | Purified Ab with BSA and Azide at 200ug/ml | 100 ug |
| 28-MSM7-P1ABX | Purified Ab WITHOUT BSA and Azide at 1.0mg/ml | 100 ug |

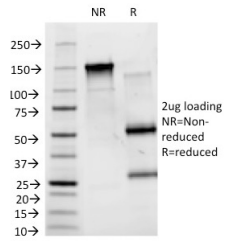
| Applications | Tested Dillution | Note |
|---|---|---|
| Immunofluorescence (IF) | 1-3ug/ml | |

## Product Details

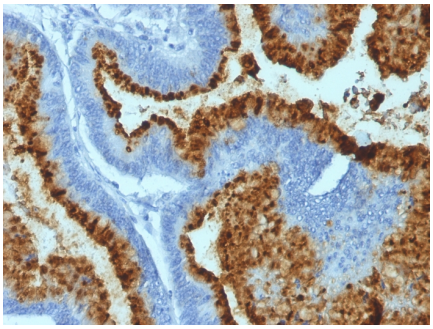
| | |
|---|---|
| **Clone** | HEB-20 |
| **Gene Name** | ABO |
| **Immunogen** | Mixture of erythrocytes of group B and glycoprotein fraction isolated from saliva of secretors with blood group B |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Isotype / Light Chain** | IgG1 / Kappa |
| **Mol. Weight of Antigen** | Multiple |
| **Cellular Localization** | Golgi apparatus, Golgi stack membrane, Secreted |
| **Species Reactivity** | Human |
| **Positive Control** | KG1 cells or human colorectal carcinoma tissues. |

**Optimal dilution for a specific application should be determined.*

## Product Images for Blood Group Antigen B (CD173) Antibody




SDS-PAGE Analysis of Purified Blood Group B Monoclonal Antibody (HEB-20). Confirmation of Integrity and Purity of Antibody



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

## Specificity & Comments

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.

## 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 1.0mg/ml.

## Storage and Stability

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.

## Research Areas

Cardiovascular

## Limitations and Warranty