

# ABO monoclonal antibody, clone HEB-29

Catalog # MAB21207      Size 100 ug

## Specification

|                            |                                                                                                                                                                                                               |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b> | Mouse monoclonal antibody raised against human ABO.                                                                                                                                                           |
| <b>Immunogen</b>           | Mixture of erythrocytes of group B and glycoprotein fraction isolated from saliva of secretors with blood group B.                                                                                            |
| <b>Host</b>                | Mouse                                                                                                                                                                                                         |
| <b>Reactivity</b>          | Human                                                                                                                                                                                                         |
| <b>Form</b>                | Liquid                                                                                                                                                                                                        |
| <b>Purification</b>        | Protein A/G purification                                                                                                                                                                                      |
| <b>Isotype</b>             | IgM, kappa                                                                                                                                                                                                    |
| <b>Recommend Usage</b>     | Agglutination<br>Immunofluorescence (0.5-1 ug/mL)<br>Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (0.5-1 ug/mL)<br>The optimal working dilution should be determined by the end user. |
| <b>Storage Buffer</b>      | In 10 mM PBS (0.05% BSA, 0.05% sodium azide).                                                                                                                                                                 |
| <b>Storage Instruction</b> | Store at 4°C.                                                                                                                                                                                                 |
| <b>Note</b>                | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.                                                                                        |

## Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)
- Immunofluorescence
- Agglutination

## Gene Info — ABO

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| Entrez GeneID      | <a href="#">28</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Protein Accession# | <a href="#">P16442</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Gene Name          | ABO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Gene Alias         | A3GALNT, A3GALT1, GTB, NAGAT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Gene Description   | ABO blood group (transferase A, alpha 1-3-N-acetylgalactosaminyltransferase; transferase B, alpha 1-3-galactosyltransferase)                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Omim ID            | <a href="#">110300</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Gene Summary       | 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. [provided by RefSeq] |
| Other Designations | ABO glycosyltransferase ABO glycosyltransferase B(A) alpha-1,3-galactosyltransferase alpha 1-3-N-acetylgalactosaminyltransferase histo-blood group A2 transferase histo-blood group ABO protein                                                                                                                                                                                                                                                                                                                                                            |

## Pathway

- [Glycosphingolipid biosynthesis - lacto and neolacto series](#)
- [Metabolic pathways](#)

## Disease

- [Activated Protein C Resistance](#)
- [AIDS-Related Opportunistic Infections](#)
- [alpha-Thalassemia](#)
- [Alzheimer disease](#)
- [Anemia](#)

- [Asthma](#)
- [Atherosclerosis](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Birth Weight](#)
- [Blood Group Incompatibility](#)
- [Brain Ischemia](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Coronary Artery Disease](#)
- [Cystic fibrosis](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Edema](#)
- [Elliptocytosis](#)
- [Fatty Liver](#)
- [Gastritis](#)
- [Genetic Predisposition to Disease](#)
- [Glucosephosphate Dehydrogenase Deficiency](#)
- [Graft vs Host Disease](#)
- [Helicobacter Infections](#)
- [Hemorrhage](#)
- [Hemorrhagic Disorders](#)
- [Intracranial Hemorrhages](#)

- [Leukemia](#)
- [Liver Cirrhosis](#)
- [Lymphatic Metastasis](#)
- [Malaria](#)
- [Metabolic Syndrome X](#)
- [Mucositis](#)
- [Myocardial Infarction](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Parasitemia](#)
- [Pharyngeal Diseases](#)
- [Pregnancy Complications](#)
- [Pseudomonas Infections](#)
- [Sickle Cell Trait](#)
- [Stomatitis](#)
- [Stroke](#)
- [Thalassemia](#)
- [Thromboembolism](#)
- [Thrombophilia](#)
- [Thrombosis](#)
- [Tuberculosis](#)
- [Venous Thrombosis](#)
- [von Willebrand Disease](#)