



# Anti- human CD20 Mouse Monoclonal Primary Antibody

Clone: UMAB58

**IVD**

**REF** CE00064

## CATALOG NUMBER

C0064MA01-MA 0.1 mL  
C0064MA05-MA 0.5 mL  
C0064MA10-MA 1.0 mL

## ENGLISH

### Intended use

Anti- human CD20 (Clone: UMAB58) Mouse Monoclonal Primary Antibody is intended for detection of CD20 protein expression in frozen or formalin fixed human tissues and cells. The clinical interpretation of any positive staining or its absence should be complemented by morphological and histological studies with proper controls. Evaluations should be made within the context of the patient's clinical history and other diagnostic tests by a qualified pathologist. The antibody is intended for *in vitro* diagnostic (IVD) use.

### Background

This gene encodes a member of the membrane-spanning 4A gene family. Members of this nascent protein family are characterized by common structural features and similar intron/exon splice boundaries and display unique expression patterns among hematopoietic cells and non-lymphoid tissues. This gene encodes a B-lymphocyte surface molecule which plays a role in the development and differentiation of B-cells into plasma cells. This family member is localized to 11q12, among a cluster of family members. Alternative splicing of this gene results in two transcript variants which encode the same protein. [provided by RefSeq, Jul].

Alternative names: B1; Bp35; CD20; CVID5; LEU-16; MS4A2; S7

### Reagent provided

Anti-human CD20 Mouse Monoclonal Primary Antibody (Clone: UMAB58) is provided in liquid form in 20mM Sodium phosphate, 150mM Sodium chloride, 0.2% BSA, 0.09% Sodium azide, pH 7.4. The isotype of the antibody is IgG1,k. The protein concentration is approximately 1.0 +/- 0.05 mg/mL.

For immunohistochemistry, the primary antibody may be used at a working dilution of 1:100 – 1:200 for formalin-fixed, paraffin-embedded human tissue. It can be dependent upon the detection system used. These are guidelines only, and optimal dilutions should be determined by the individual laboratory.

### Immunogen

Full length human recombinant protein of human MS4A1 (NP\_068769) produced in HEK293T cell.



## **Specificity**

The specificity of the anti- human CD20 Mouse Monoclonal Primary Antibody was established on known positive human spleen. The anti-human CD20 presented no staining on human brain and positive staining on human spleen tissue using immunohistochemical (IHC) test methods.

## **Materials Required but Not Supplied**

Antibody diluent, HIER solution, Antibody detection kits, Chromogen, Staining reagents, negative and positive tissue control slides are not included.

## **Precautions**

1. For use by trained professionals only.
2. This product contains sodium azide ( $\text{NaN}_3$ ), a chemical highly toxic in pure form. At product concentrations, though not classified as hazardous,  $\text{NaN}_3$  may react with lead and copper plumbing to form highly explosive build-ups of metal azides. Upon disposal, flush with large volumes of water to prevent metal azide build-up in plumbing.
3. Wear appropriate Personal Protective Equipment to avoid contact with eyes and skin.
4. Unused reagents should be disposed of according to local, State, and Federal regulations.

## **Storage**

Store at 2-8°C. Do not use the product past the expiration date indicated on the label. If reagents are stored under any other conditions, the end user must verify the acceptability of those conditions. There are no obvious signs to indicate instability of this product therefore, positive and negative controls should be run simultaneously with patient specimens.

## **Specimen Preparation**

### Paraffin Sections

Anti- human CD20 Mouse Monoclonal Primary Antibody can be used on formalin-fixed, paraffin-embedded tissue sections at a working dilution of 1:100 to 1:200. Anti- human CD20 Mouse Monoclonal Primary Antibody (Clone: UMAB58) working dilution requires heat induced epitope retrieval (HIER) for 3 minutes using pressure chamber at 110C for staining. We recommend using HIER Citrate buffer solution pH 6.0, which showed optimal staining of anti-CD20 antibody at a dilution of 1:200 on human spleen tissue. The dilutions are estimates; the actual staining results may vary due to reagents and detection protocols used. Validation of antibody performance and final protocol are the responsibility of the end user.

## **Staining procedure**

### Manual Staining Procedure

1. Deparaffinize slides.
2. Rinse with distilled water; wash with PBS-T 3 times, 2 minutes each.
3. Apply serum blocking solution. [Optional]
4. Apply primary antibody and incubate for 30-60 minutes at room temperature. After incubation wash with PBS-T 3 times, 2 minutes each.
5. Apply secondary antibody and incubate according to the data sheet of the detection system. Wash with PBS-T 3 times, 2 minutes each.
6. Apply enzyme conjugate and incubate according to data sheet of detection system. Wash with PBS-T 3 times, 2 minutes each.
7. Apply chromogen and incubate 5-10 minutes and rinse with distilled water.

## **Staining interpretation**

Anti- human CD20 Mouse Monoclonal Primary Antibody is primarily membranous with some cytoplasmic staining.

## **Performance Characteristics**

### Predictive Negative Staining in Human Tissue

Human brain was shown to be negative for this antibody.

### Predictive Positive Staining in Human Tissue

Anti- human CD20 Mouse Monoclonal (Clone: UMAB58) produced primarily membranous with some cytoplasmic staining when screened on human spleen.

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