



Anti- human CD31 Mouse Monoclonal Primary Antibody

Clone: UMAB32

IVD

REF CE00065

CATALOG NUMBER

C0065MA01-MA 0.1 mL
C0065MA05-MA 0.5 mL
C0065MA10-MA 1.0 mL

ENGLISH

Intended use

Anti- human CD31 (Clone: UMAB32) Mouse Monoclonal Primary Antibody is intended for detection of CD31 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

The protein encoded by this gene is found on the surface of platelets, monocytes, neutrophils, and some types of T-cells, and makes up a large portion of endothelial cell intercellular junctions. The encoded protein is a member of the immunoglobulin superfamily and is likely involved in leukocyte migration, angiogenesis, and integrin activation. [provided by RefSeq, May 2010]

Alternative names: PECA1; GPIIA'; PECAM-1; endoCAM; CD31/EndoCAM

Reagent provided

Anti-human CD31 Mouse Monoclonal Primary Antibody (Clone: UMAB32) 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 0.5 +/- 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 PECAM1(NP_000433) produced in HEK293T cell.

Specificity

The specificity of the anti- human CD31 Mouse Monoclonal Primary Antibody was established on known positive spleen.

The anti-human CD31 presented no staining on formalin fixed human liver and positive staining on formalin fixed human spleen 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 (NaN_3), a chemical highly toxic in pure form. At product concentrations, though not classified as hazardous, 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 CD31 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 CD31 Mouse Monoclonal Primary Antibody (Clone: UMAB32) working dilution requires heat induced epitope retrieval (HIER) for 3 minutes using pressure chamber at 110C for staining. We recommend using HIER Accel 3 in 1 EDTA solution pH 8.7, which showed optimal staining of anti-CD31 antibody at a dilution of 1:200 on human spleen and negative staining on human liver. 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. Submerge slides in peroxidase quenching solution for ~10 minutes, then rinse 2x with dH₂O.
3. Heat Induced Epitope Retrieval is required for this antibody; Accel 3 in 1 EDTA solution, pH 8.7 at 110C for 3minutes.
4. Allow slides to cool down from step 3, rinse with distilled water, wash with PBS-T 3 times, 2 minutes each.
5. Apply serum blocking solution.[Optional]
6. Apply primary antibody and incubate for 30-60 minutes at room temperature. After incubation wash with PBS-T 3 times, 2 minutes each.
7. Apply secondary antibody and incubate according to the data sheet of the detection system. Wash with PBS-T 3 times, 2 minutes each.
8. Apply enzyme conjugate and incubate according to data sheet of detection system. Wash with PBS-T 3 times, 2 minutes each.
9. Apply chromogen and incubate 5-10 minutes and rinse with distilled water.

Staining interpretation

The cellular staining pattern for Anti- human CD31 Mouse Monoclonal Primary Antibody is cytoplasmic and membranous.

Performance Characteristics

Predicted Staining in Normal Tissue/Cells

Human liver was shown to be negative for this antibody.

Predictive Staining in Tumor

Anti- human CD31 Mouse Monoclonal (Clone: UMAB32) produced cytoplasmic and membranous staining when screened on human spleen.

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