

Anti- human CK18 Mouse Monoclonal Antibody

Clone: UMAB50 REF RU00033

Intended use

Anti-human CK18 (Clone: UMAB50) Mouse Monoclonal Antibody is intended for research use only. Not for use in diagnostic procedures. Not for human or animal consumption.

Background

The type I intermediate filament chain keratin 18 is encoded by the gene KRT18. Keratin 18, together with its filament partner keratin 8, are perhaps the most commonly found members of the intermediate filament gene family. They are expressed in single layer epithelial tissues of the body. Mutations in the gene have been linked to cryptogenic cirrhosis.

Alternative names: CYK18, K18, KRT18

Reagent provided

Anti-human CK18 Mouse Monoclonal Primary Antibody (Clone: UMAB50) 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. The protein concentration is approximately 0.4 +/- 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

Human recombinant protein fragment corresponding to amino acids 69-372 of human KRT18 (NP_000215) was produced in *E. coli*.

Specificity

The specificity of the anti-human CK18 Mouse Monoclonal Primary Antibody was established on human colon cancer, breast cancer, normal human placenta, spleen and tonsil tissue. The anti- CK18 presented no staining on normal human spleen and tonsil. Positive staining was shown on normal human breast, placenta, human colon cancer and human breast cancer tissues using immunohistochemical (IHC) test methods.

Precautions

1. 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.
2. Wear appropriate Personal Protective Equipment to avoid contact with eyes and skin.
3. Unused reagents should be disposed of according to local, State, and Federal regulations.
4. Suitability for specific application may vary and it is the responsibility of the end user to determine the appropriate application for use and stability.

Storage

Store at 2-8°C. If reagents are stored under conditions other than those specified in the package insert, they must be verified by the user.

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