

Anti- human CK 8 Mouse Monoclonal Antibody

Clone: 1B12 REF RU00006

Intended use

Anti- human CK 8 (Clone: 1B12) Mouse Monoclonal Antibody is intended for research use only. Not for use in diagnostic procedures. Not for human or animal consumption.

Background

CK 8/Keratin 8 is a member of the type II keratin family clustered on the long arm of chromosome 12. Type I and type II keratins heteropolymerize to form intermediate-sized filaments in the cytoplasm of epithelial cells. The product of this gene typically dimerizes with keratin 18 to form an intermediate filament in simple single-layered epithelial cells. This protein plays a role in maintaining cellular structural integrity and also functions in signal transduction and cellular differentiation. Mutations in this gene cause cryptogenic cirrhosis.

Alternative Names: CK 8/ Cytokeratin 8 / Keratin 8 CK-8, cytokeratin-8, keratin, type II cytoskeletal 8, keratin-8

Reagent provided

Anti- human CK 8 Mouse Monoclonal Primary Antibody (Clone: 1B12) 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 IgG2b. The protein concentration is approximately 0.2 +/- 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 and this 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 91-381 of human CK8 (NP_002264) was produced in E. coli.

Specificity

The specificity of the anti- human CK 8 Mouse Monoclonal Primary Antibody was established on known positive breast cancer tissue and negative human tonsil tissue. The anti-CK8 presented no staining on formalin fixed negative human tonsil tissue and germinal and non-germinal center and positive staining on formalin fixed positive breast cancer tissue 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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