Mouse Anti-Human Cytokeratin 18 Monoclonal Antibody

Cat. No. DMAB5337MH
Lot. No. (See product label)

PRODUCT INFORMATION

**Product Overview:** Mouse anti-human cytokeratin 18 monoclonal antibody is intended for qualitative immunohistochemistry with normal and neoplastic formalin-fixed, paraffin-embedded tissue sections, to be viewed by light microscopy. Clinical interpretation of staining results should be accompanied by histological studies with proper controls. Patients’ clinical histories and other relevant diagnostic tests should be utilized by a qualified person(s) when evaluating and interpreting results.

**Antigen Description:** Keratin 18 is a type I cytokeratin. It is, together with its filament partner keratin 8, perhaps the most commonly found products of the intermediate filament gene family. They are expressed in single layer epithelial tissues of the body. Mutations in this gene have been linked to cryptogenic cirrhosis. Two transcript variants encoding the same protein have been found for this gene.

**Immunogen:** Human epidermal carcinoma and MCF-7 human breast cancer cells.

**Cellular Localization:** Cytoplasmic

**Clone:** DZ-91

**Species:** Human

**Host animal:** Mouse

**Isotype:** IgG1

**Specificity:** This antibody recognizes keratin polypeptide of 45 kD. In normal tissues, it reacts with a large number of epithelial cell types, including ductal and glandular epithelia. This antibody does not react with squamous epithelia. Most adenocarcinomas, basal cell carcinomas, and benign and malignant epithelial lesions stain with this antibody.

**Form:** This antibody is supplied as diluted ascites containing sodium azide as a preservative.

**Applications:** Immunohistochemistry

**Titer/Working Dilution:** This antibody may be diluted to a titer of 1:25-1:50 using our Polyvue Detection System. The final dilution should be determined by the user based upon the staining conditions employed.

**Staining Protocol:** We suggest an incubation period of thirty minutes at room temperature. Optimal incubation conditions should be determined by the user based upon the fixation conditions and staining system employed. Proteolytic digestion may be required in some paraffin embedded tissue sections.

**Positive Control:** Skin

**Storage:** Store at 2-8°C. Do not use beyond the expiration date stated on the label.

ANTIGEN GENE INFORMATION

**Gene Name:** KRT18 keratin 18 [Homo sapiens]

**Official Symbol:** KRT18

**Synonyms:** KRT18; keratin 18; PIG46; CYK18; K18; CK-18; cell proliferation-inducing gene 46 protein; Cell proliferation-inducing protein 46; cytokeratin 18; cytokeratin-18; keratin, type I cytoskeletal 18; keratin-18; Cytokeratin-18

**Gene ID:** 3875

**mRNA Refseq:** NM_000224

**Protein Refseq:** NP_000215

**MIM:** 148070

**UniProt ID:** P05783

**Chromosome Location:** 12q13

**Pathway:** Caspase cascade in apoptosis; EGFR1 Signaling Pathway; Pathogenic Escherichia coli infection

**Function:** Protein binding; structural molecule activity

REFERENCES

