

Product No. C-1041

Lot 064H4843

Monoclonal Anti-Desmosomal Cytokeratin

Mouse Ascites Fluid

Clone DK 80.20

Monoclonal Anti-Desmosomal Cytokeratin (mouse IgM isotype) is derived from the hybridoma produced by the fusion of mouse myeloma cells and splenocytes from an immunized mouse. Cytoskeleton from a bovine mammary gland epithelial (BMGE) preparation was used as the immunogen. The isotype was determined by double diffusion assay. The product is provided as ascites fluid containing 0.1% sodium azide (see MSDS)* as a preservative.

Specificity

Monoclonal Anti-Desmosomal Cytokeratin is specific for the cytokeratin peptide 8 by immunoblotting on human and bovine cultured cell lines. Staining shows a typical punctate dot-like pattern consistent with desmosome decoration. The antibody also stains cytokeratin 8 in human tissue extracts and purified cytokeratin polypeptides. The product, when used in immunofluorescent labeling of various bovine and human cultured cells, shows staining of desmosomal patterns along the intercellular contacts of the cells. The product reacts with desmosomes in frozen tissue sections of non-stratified epithelia as follows:

Simple Epithelium

Small intestine
Colon
Pancreas
Salivary gland (acini, ducts)
Liver (hepatocytes, bile ducts)

Transitional Epithelium

Urinary bladder

Pseudostratified Epithelium

Trachea

The antibody shows no reaction with:

Stratified Epithelium

Bovine snout
Tongue
Cornea
Esophagus

Non-Epithelia Tissue

Heart (intercalated discs)

Working Dilution

A working dilution of 1:100 was determined by indirect immunofluorescent staining on frozen sections of bovine tissue.

In order to obtain best results, it is recommended that each individual user determine their working dilution by titration assay.

Uses

Monoclonal Anti-Desmosomal Cytokeratin may be used for immunohistochemical staining of cultured cells or frozen tissue sections of non-stratified human or bovine epithelia. Aldehyde fixation should be avoided.

Storage

For continuous use, store 0-5°C. For extended storage, solution may be frozen in working aliquots. Repeated freezing and thawing is **not** recommended. If slight turbidity occurs upon prolonged storage, clarify by centrifugation before use.

*Due to sodium azide content a material safety data sheet (MSDS) for this product has been sent to the attention of the safety officer of your institution. Consult the MSDS for information regarding hazards and safe handling practices.

References

1. Moll, R., et al., *Cell*, **31**, 11 (1982).
2. Moll, R., et al., *Lab. Invest.*, **54**, 4 (1986).
3. Garrod, D., *J. Cell Sci., Suppl.* **4**, 221 (1986).