3050 Spruce Street
Saint Louis, Missouri 63103 USA
Telephone (800) 325-5832 (314) 771-5765
Fax (314) 286-7828
email: techserv@sial.com
sigma-aldrich.com

ProductInformation

MONOCLONAL ANTI-CYTOKERATIN PEPTIDE 7
CLONE LDS-68
Mouse Ascites Fluid

Product No. **C6417**

Product Description

Monoclonal anti-Cytokeratin Peptide 7 (mouse IgG1 isotype) is derived from the hybridoma produced the fusion of mouse myeloma cells and splenocytes of an immunized mouse. Cytoskeletal preparations of the RT4 human bladder carcinoma cell line were used as the immunogen. The isotype is determined by a double diffusion assay using immunoglobulin and subclass specific antisera.

Reagents

The product is provided as ascites fluid containing 15 mM sodium azide as a preservative.

Precautions and Disclaimer

Due to the 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.

Specificity

Monoclonal anti-Cytokeratin Peptide 7 is immunospecific for the cytokeratin peptide 7 as determined by immunoblotting analysis of isolated human cytokeratin polypeptides. This antibody reacts specifically with most simple epithelial cells but shows no reaction with epithelial cells in the intestine or stomach. When used in immunofluorescent or immunoperoxidase labeling of various human tissues the antibody shows staining as follows:

Normal Tissue	
Eccrine Sweat Gland	+
Mammary Gland Ducts	+
Mammary Myoepithelial Cells	–
Bladder Transitional Epithelium	–
Pancreas Tubular Epithelium	+
Pancreas Acini	–
Liver Bile Ducts	+
Liver Hepatocytes	–-
Endocervical Epithelium	+

Tumors	
Colon Rectal Adenocarcinoma	–
Heptocellular Carcinoma	–
Cholangiocellular Carcinoma	+
Ductal Carcinoma of the Breast	+
Transitional Carcinoma of the Urinary Bladder	+

Working Dilution

A minimum working dilution of 1:200 was determined by indirect immunofluorescent labeling of formalin fixed paraffin embedded human tissue sections.
In order to obtain best results it is recommended that each individual user determine their optimum working dilution by titration assay.

Description

Epithelial cells and their derivatives characteristically contain intermediate filaments composed of about 20 related polypeptides with molecular weights between 40,000 and 69,000. Each epithelial tissue has a specific and stable pattern of expression of some of these cytokeratin subunits. Epithelium derived tumors maintain the expression of the cytokeratins found in the normal tissue of origin. Therefore, carcinomas can be identified and classified by immunocytochemical staining with antibodies that react specifically with cytokeratins.

Uses

Monoclonal anti-Cytokeratin Peptide 7 may be used for immunohistochemical staining on formalin fixed paraffin embedded or frozen tissue sections by means of indirect immunofluorescent or immunoperoxidase techniques.

Storage

For continuous use, store at 2-8 °C for up to one month. For extended storage, solution may be frozen in working aliquots. Repeated freezing and thawing is not recommended. Storage in "frost-free" freezers is not recommended. If slight turbidity occurs upon prolonged storage, clarify by centrifugation before use.

6/98