



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

Product Information

MONOCLONAL ANTI-CYTOKERATIN 4.62

Clone K4.62

Mouse Ascites Fluid

Product Number **C 7159**

Product Description

Monoclonal Anti-Cytokeratin 4.62 (mouse IgG1 isotype) is derived from the hybridoma produced by the fusion of mouse myeloma cells and splenocytes from an immunized mouse. Cytoskeletal proteins from the human breast carcinoma (MCF-7) were used as the immunogen. The isotype is determined using Sigma ImmunoType™ Kit (Product Code ISO-1) and by a double diffusion immunoassay using Mouse Monoclonal Antibody Isotyping Reagents (Product Code ISO-2).

Epithelial cells and their derivatives characteristically contain intermediate filaments (IFs) composed of about 20 related polypeptides with molecular weights between 40,000-69,000 Da. 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 tissues of origin. Therefore carcinomas can be identified and classified by immunocytochemical staining with antibodies that react specifically with cytokeratins.

Reagent

The product is provided as ascites fluid with 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.

Storage/Stability

For continuous use, store at 2-8 °C for up to one month. For extended storage, the 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 the solution by centrifugation before use.

Product Profile

Monoclonal Anti-Cytokeratin 4.62 is immunospecific for cytokeratin 19 as demonstrated by immunoblotting analysis on isolated human cytokeratin polypeptides. The antibody specifically stains the basal layer of non-keratinizing epithelia, metaplastic epithelium of the cornix, simple epithelium containing cytokeratin 19, transitional epithelium, all squamous carcinoma tested, and adenocarcinomas-expressing cytokeratin 19. The antibody also stains bovine desmosomes due to cross-reactivity with bovine desmoplakin.

Monoclonal Anti-Cytokeratin 4.62 may be used for immunohistochemical staining on frozen tissue sections by means of indirect immunofluorescence or immuno-peroxidase techniques.

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

KMR/MAM 12/01

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