

AM09120PU-N

Monoclonal Antibody to pan Cytokeratin - Purified

Alternate names:

Cytokeratin pan-reactive, pan Keratin

Quantity:

50 µg

Background:

Cytokeratins, a group comprising at least 29 different proteins, are characteristic of epithelial and trichocytic cells. Cytokeratins 1, 4, 5, 6, and 8 are members of the type II neutral to basic subfamily. Monoclonal anti cytokeratins are specific markers of epithelial cell differentiation and have been widely used as tools in tumor identification and classification. Monoclonal Anti Pan Cytokeratin (mixture) is a broadly reactive reagent, which recognizes epitopes present in most human epithelial tissues. It facilitates typing of normal, metaplastic and neoplastic cells. Synergy between the various components results in staining amplification. This enables identification of cells, which would otherwise be stained only marginally. The mixture may aid in the discrimination of carcinomas and nonepithelial tumors such as sarcomas, lymphomas and neural tumors. It is also useful in detecting micrometastases in lymph nodes, bone marrow and other tissues and for determining the origin of poorly differentiated tumors. There are two types of cytokeratins the acidic type I cytokeratins and the basic or neutral type II cytokeratins. Cytokeratins are usually found in pairs comprising a type I cytokeratin and a type II cytokeratin. Usually the type II cytokeratins are 8kD larger than their type I counterparts.

Host / Isotype:

Mouse / IgG1

Recommended Isotype Controls:

SM10P (for use in human samples), SM20P (for use in rat samples), AM03095PU-N

Clone:

lu-5

Immunogen:

Cells of lung cancer cell line A549 and A2182.

Format:

State: Lyophilised purified Ig
Purification: Ion exchange chromatography
Buffer System: 0.09 % sodium azide, 0.5% BSA in PBS buffer, pH 7.4
Reconstitution: Restore in 1 ml dist. water

Applications:

Immunohistochemistry on frozen and paraffin sections: 1/20.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

This antibody reacts to Cytoketatin pan.
Species: Human, Bovine, Rat; Chicken, Snake, Xenopus laevis, Pleurodeles waltlii.
Other species not tested.

Storage:

Prior to reconstitution store at 2-8°C.
Following reconstitution store the antibody at -20°C.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:

1. von Overbeck J, Stähli C, Gudat F, Carmann H, Lautenschlager C, Dürmüller U, et al. Immunohistochemical characterization of an anti-epithelial monoclonal antibody (mAB lu-5). *Virchows Arch A Pathol Anat Histopathol.* 1985;407(1):1-12. PubMed PMID: 2409666.
2. Franke WW, Winter S, von Overbeck J, Gudat F, Heitz PU, Stähli C. Identification of the conserved, conformation-dependent cytokeratin epitope recognized by monoclonal antibody (lu-5). *Virchows Arch A Pathol Anat Histopathol.* 1987;411(2):137-47. PubMed PMID: 2440176.