



American MasterTech

scientific laboratory supplies

POST OFFICE BOX 2539 LODI, CALIFORNIA 95241 TELEPHONE: 1 (800) 860 4073 FACSIMILE: 1 (209) 368 4136

Monoclonal Antibodies to Cytokeratin 5

Technical Data Sheet

Reagent Category

Monoclonal primary antibody to cytokeratin

Antibody Formats Supplied

0.2 ml of anti Cytokeratin 5, Concentrate

PRODUCT# IMI21252E (Concentrate)

SOURCE: cultured supernatant

IMMUNOGEN Purified Cytokeratin 5

IMMUNOGLOBULIN ISOTYPE: IgG1

CLONE: XM26

REACTIVITY

Cytokeratin 5 belongs to the family of intermediate filament proteins, it is a 58kD protein found in non-keratinising stratified squamous epithelia and in basal epithelia, hair follicles, luminal cells of the mammary glands, basal cells of prostate, basal cells of epidermis, squamous cell carcinomas of skin and in tongue. Cytokeratin 5 is also present in most epithelial and mesothelomas. Cytokeratin 5 staining is often employed in the identification of mesothelomas from adenocarcinomas. This antibody is suitable for use on routinely fixed paraffin embedded or frozen sections or cell smears. This antibody is compatible with formalin and other most commonly used histological fixatives.

POSITIVE CONTROL TISSUE: prostate

STAINING PATTERN: cytoplasmic staining

Antibody FORMAT, DILUTION and INCUBATION

This affinity-purified monoclonal antibody is provided in phosphate buffered saline pH 7.2 containing bovine serum albumin (BSA) and 0.05% sodium azide.

0.2 ml of Concentrate, for paraffin section staining: Dilute 1:50 – 1:80 for 30-minute incubation. The dilution factors are considerably higher for 1 hour to over-night incubation. The dilution factor for frozen section staining and other applications are also considerably higher and must be determined by the end user for the application and the secondary staining reagents employed.

THE SUGGESTED STARTING DILUTION FACTORS ARE MERE GUIDELINES ONLY. OPTIMAL DILUTION FACTORS MUST BE DETERMINED BY THE END USER FOR THE SECONDARY STAINING REAGENTS, SPECIMEN, STAINING PROTOCOL AND APPLICATION EMPLOYED.

The above dilutions and incubation times were derived by the use of Innovex STAT-Q and HISTO-STAT staining systems. For less sensitive detection systems these dilution factors may vary and they should be determined by the end user for specific detection system employed.

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SPECIAL USAGE GUIDANCE

Pre-treatment step such as enzyme (trypsin) pre-digestion is often required when staining cytokeratin antibodies. The use of Innovex STAT-Q staining system and signal Enhancing wash buffer in place of PBS or Tris buffer for rinsing in between incubation steps (Item#: IMI00396E for Immuno-Peroxidase staining and Item#: IMI00596E for Immuno-Alkaline-phosphatase) greatly enhances staining signals even on antigenically weak tissues and for overfixed tissues. Furthermore, the use of Innovex Enhancing Wash Buffer as the assay wash buffer allows the user to cut primary incubation time and/or increase antibody dilution and eliminates the need for enzyme pre-digestion. When rinsing with PBS, trypsin digestion of paraffin sections is highly recommended.

APPLICATIONS

This antibody is intended for use in immunolocalization of cytokeratin 5 proteins in human tissue by a variety of immunoassays such as Immunochemistry, ELISA, Immunoblotting labeling, Immunoblotting and dot blotting. In Immunochemistry, this antibody can be used in staining routinely fixed paraffin embedded or frozen histological sections for the purpose of qualitative localization of cytokeratin 5 proteins. This antibody can also be used for quantitative flow cytometric assays in the indirect method.

SPECIES REACTIVITY

This antibody reactivity with human has been substantiated; other species reactivity may be characterized by the end user.

STORAGE CONDITIONS

Store in refrigerator at 2-8°C through expiration date noted on the vial.

IMPORTANT NOTE:

The interpretation of test results is the sole responsibility of the end user.

FOR IN VITRO RESEARCH USE ONLY