



American MasterTech

scientific laboratory supplies

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

Monoclonal Antibody to Smooth-Muscle Actin

Technical Data Sheet

Reagent Category

Monoclonal primary antibody to Smooth muscle actin

Antibody Formats Supplied

- 7 ml of anti smooth muscle actin, Ready-To-Use
- 0.2 ml of anti smooth muscle actin, Concentrate

PRODUCT# IMI10261E (Ready-To-Use)

PRODUCT# IMI10252E (Concentrate)

SOURCE: Mouse ascites fluid

IMMUNOGLOBULIN ISOTYPE: IgG2a

CLONE: 1A4

SPECIFICITY & REACTIVITY

1A4 anti smooth muscle actin antibody is reactive with alpha-smooth muscle isoform of actin and it does not react with beta and gamma isoforms of fibroblasts actin and striated muscle actin. In normal tissues, this antibody is reactive with smooth muscle; in tumor tissues 1A4 is reactive with leiomyosarcomas, leiomyomas, fibrous histiocytomas. It is non-reactive with sarcomas other than a proportion of rhabdomyosarcomas.

POSITIVE CONTROL TISSUE: Colon/ Smooth muscle

STAINING PATTERN: Cytoplasmic

Antibody FORMATS, DILUTIONS and INCUBATIONS

This affinity purified monoclonal anti smooth muscle actin mouse ascites antibody is provided in phosphate buffered saline pH 7.2 containing bovine serum albumin (BSA) and 0.05% sodium azide.

7 ml of Ready-to-Use, Do not dilute. Incubate for 20-30 minutes. This antibody best stains when formalin fixed paraffin embedded sections are retrieved.

For Background-Free and easy retrieval, Innovex Uni-Trieve (60°-70°C) universal retrieval solution is highly recommended. To retrieve with Uni-Trieve: Warm up a water bath to 60°-70°C and fill a slide holding container with Uni-Trieve solution. Place slides in a slide rack and immerse slides in a vessel or a coplin jar containing Uni-Trieve solution, bring the Uni-Trieve solution and slides to 60°-70°C and let slides incubate at 60°-70°C for 30 minutes. Rinse slides with 2 quick changes of water; No cooling period is required. Proceed with immunostaining.

0.2 ml Concentrate; for 30 minute incubation, the starting dilution is at 1:50. For longer incubation time the titer should be determined by the end user. All concentrated antibodies should be titrated by the user for secondary reagents and tissues employed. **This antibody best stains when formalin fixed paraffin embedded sections are retrieved.**

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The above dilutions and incubation times were derived by the use of Innovex STAT-Q detection 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.

APPLICATIONS

This antibody is intended for use in immunolocalization of smooth muscle actin antigen by a variety of immunoassays such as Immunochemistry, fluorescent labeling, ELISA, Immunoblotting and dot blotting. In immunochemistry, this antibody can be used in staining routinely fixed paraffin embedded or frozen histological sections of human or animal tissues for the purpose of qualitative localization of smooth muscle actin antigens in human or animal tissues. This antibody can also be used for quantitative flow cytometric assays in the indirect method.

SPECIES REACTIVITY

This antibody is reactive with human smooth muscular tissue and stress fibers of cultured fibroblasts of chicken, rat and mouse. 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.

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