



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 Muscle-Specific Actin

Technical Data Sheet

Reagent Category

Monoclonal primary antibody to
Muscle-Specific Actin

Antibody Formats Supplied

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

PRODUCT# IMI10161E (Ready-To-Use)

PRODUCT# IMI10152E (Concentrate)

SOURCE: Mouse ascites fluid

CLONE: HHF35

IMMUNOGLOBULIN ISOTYPE: IgG1

REACTIVITY

This antibody is reactive with alpha and gamma isotypes of 42KD present in striated (skeletal), cardiac and smooth muscle. This antibody reacts with a variety of muscle-derived tumors such as leiomyomas and many species such as human, primate, mouse, bovine, rat and dolphin and shark. Other species reactivity may be determined by the end user. This antibody is suitable for use on routinely fixed paraffin embedded and frozen sections. For obtaining prival staining, see special usage guidance of this data sheet.

POSITIVE CONTROL TISSUE: striated muscle, leiomyoma

STAINING PATTERN: Cytoplasmic staining

Antibody FORMATS, DILUTIONS and INCUBATIONS

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

- 7 ml of Ready-to-Use, Do not dilute. Incubate for 10-30 minutes.**
- 0.2 ml Concentrate; for 10-30 minute incubation, the starting dilution is at 1:50; for 1 hour incubation, dilute 1:80-1:100.** For longer incubation time the titer should be determined by the end user.

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.

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SPECIAL USAGE GUIDANCE

No pre-treatment is necessary, for best staining result the use of **Innovex STAT-Q staining system** and **Innovex signal enhancing wash buffer** (Item # IMI00396E for Immuno-Peroxidase staining and product Item#: IMI00596E for Alkaline-Phosphatase staining) in place of PBS or Tris buffer for the rinsing steps in between the incubation steps is highly recommended. The use of Innovex STAT-Q staining system in conjunction with Innovex Signal Enhancing Wash buffer **amplifies staining signal, eliminates the need for enzyme digestion and high heat application** (retrieval procedure) pre treatment steps. In addition, the use of this system allows the user to **shorten the incubation time for the primary antibodies**.

APPLICATIONS

This antibody is intended for use in staining muscle specific actin in routinely fixed tissues and cell preparations. This antibody can also be used for quantitative flow cytometric assays in the indirect method.

APPROPRIATE NEGATIVE CONTROL SERA

Employ mouse ascites fluid free of immunoglobulins in place of primary antibody when staining negative control slide. Observe the same incubation time for negative control sera and the primary antibody.

SPECIES REACTIVITY

This antibody is reactive with human. Other species reactivity may be determined 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