



## Monoclonal Antibody to Myosin

### *Technical Data Sheet*

#### Reagent Category

Monoclonal primary antibody to Myosin

PRODUCT# IMI27561E (Ready-To-Use)

PRODUCT# IMI27552E (Concentrate)

#### Antibody Formats Supplied

7 ml of Myosin antibody, Ready-To-Use

0.2 ml of Myosin antibody, Concentrate

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**SOURCE:** Mouse ascites fluid

**IMMUNOGLOBULIN ISOTYPE:** IgG1

**CLONE:** MY-32

#### **REACTIVITY**

This anti myosin antibody reacts with myosin heavy chain of human and animal skeletal muscle, mainly, the fast type II form of myosin. This antibody does not stain human or animal cardiac or smooth muscles and it does not react with cells grown in culture (non-muscle myosin). This antibody is suitable for staining routinely fixed, paraffin embedded and frozen histological sections. It is also suitable for staining formalin fixed paraffin embedded tissues.

**POSITIVE CONTROL TISSUE:** Striated (skeletal muscle), tongue

#### **PRODUCT FORMATS, DILUTIONS and INCUBATIONS**

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

**7 ml pre-diluted, Ready-to-Use, (do not dilute). Incubate for 10 - 30 minutes.**

**0.2 ml Concentrate; For 30 minute incubation, dilute 1: 50-1:60;** The provided dilution range are mere guidelines, the incubation time and the working titer must be determined by the end user for the tissue and the secondary staining reagents employed.

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

#### **SPECIAL USAGE GUIDANCE**

No pre-treatment is necessary, however, for best staining results, the use of a Innovex Enhancing Wash Buffer is highly recommended when staining formalin fixed paraffin embedded sections. The use of Innovex signal-Enhancing Wash Buffers (Item#: IMI00396E for Immuno-Peroxidase staining and Item#: IMI00596E for Immuno-Alkaline-phosphatase) in place of PBS or Tris buffer for the rinsing steps in between the incubation steps greatly enhances staining signals for antigenically weak tissues or for overfixed tissues. Its use further eliminates the need for enzyme Pre- digestion, heat application (retrieval procedure), long incubation of primaries and repetitive procedures.

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If retrieval is preferred, the use of Innovex Uni-Trieve (60°C -70°C) Universal Retrieval solution is highly recommended. To retrieve with Uni-Trieve: Warm up 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 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.

## **APPLICATIONS**

This antibody is intended for use in immunolocalization of skeletal myosin proteins by a variety of immunoassays such as Immunocytochemistry, ELISA, Immunoblotting and dot blotting. In immunocytochemistry, this antibody can be used in staining routinely fixed paraffin embedded and frozen histological sections of human or animal tissues for the purpose of qualitative or localization of skeletal myosin. 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***