Datasheet for ABIN5002482

# anti-MYL1 antibody (AA 101-170) (AbBy Fluor® 750)

Go to Product page

## Overview

| | |
|---|---|
| Quantity: | 100 µL |
| Target: | MYL1 |
| Binding Specificity: | AA 101-170 |
| Reactivity: | Human, Rat, Mouse |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This MYL1 antibody is conjugated to AbBy Fluor® 750 |
| Application: | Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)) |

## Product Details

| | |
|---|---|
| Immunogen: | KLH conjugated synthetic peptide derived from human MRLC2 |
| Isotype: | IgG |
| Specificity: | This antibody may recognize myosin light chain 5, myosin light chain 7, or myosin regulatory light chain 10 |
| Cross-Reactivity: | Human, Mouse, Rat |
| Predicted Reactivity: | Dog,Cow,Sheep,Pig,Horse,Rabbit |
| Purification: | Purified by Protein A. |

## Target Details

| | |
|---|---|
| Target: | MYL1 |
| Alternative Name: | Fast skeletal Myosin (MYL1 Products) |
| Background: | Synonyms: MRLC2, MYL11, HUMMLC2B, Myosin regulatory light chain 2, skeletal muscle isoform, Fast skeletal myosin light chain 2, MLC2B, MYLPF<br>Background: Myosin is a highly conserved, ubiquitously expressed protein that interacts with Actin to generate the force for cellular movements. Conventional Myosins are hexameric proteins consisting of two heavy chain subunits, a pair of non-phosphorylatable light chain subunits and a pair of phosphorylatable light chain subunits. Three general classes of Myosin have been cloned: smooth muscle Myosins, striated muscle Myosins and non-muscle Myosins . Contractile activity in smooth muscle is regulated by the calcium/calmodulin-dependent phosphorylation of Myosin light chain (MLC) by Myosin light chain kinase. Myosin heavy chains, which are encoded by the MYH gene family, contain Actin-activated ATPase activity which generates the motor function of Myosin. Myosin heavy chains were initially isolated from a human fetal skeletal muscle and are the major determinant in the speed of contraction of skeletal muscle. Various isoforms of myosin heavy chains are differentially expressed depending on the functional activity of the muscle. |
| Gene ID: | 29895 |
| UniProt: | Q96A32 |

## Application Details

| | |
|---|---|
| Application Notes: | IF(IHC-P) 1:50-200<br>IF(IHC-F) 1:50-200<br>IF(ICC) 1:50-200 |
| Restrictions: | For Research Use only |

## Handling

| | |
|---|---|
| Format: | Liquid |
| Concentration: | 1 μg/μL |
| Buffer: | Aqueous buffered solution containing 0.01M TBS ( pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol. |
| Preservative: | ProClin |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be |

## Handling

| | |
|---|---|
| | handled by trained staff only. |
| Storage: | -20 °C |
| Storage Comment: | Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles. |
| Expiry Date: | 12 months |