# Actin, sarcomeric muscle (ABT-SCA) Mouse mAb

CatalogNo: YM4913 Recombinant

## Key Features

Host Species
- Mouse

Reactivity
- Human,Mouse,Rat,Bovine,Pig,Chicken

Applications
- IHC,WB,IF,ELISA

MW
- 42kD (Observed)

Isotype
- IgG1, Kappa

## Storage

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|---|---|
| **Storage*** | -15°C to -25°C/1 year (Do not lower than -25°C) |
| **Formulation** | PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA |

## Recommended Dilution Ratios

**IHC 1:200-1000**
**WB 1:500-2000**
**IF 1:100-500**
**ELISA 1:1000-5000**

## Basic Information

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|---|---|
| **Clonality** | Monoclonal |
| **Clone Number** | ABT-SCA |

## Immunogen Information

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|---|---|
| **Immunogen** | Synthesized peptide derived from human Actin, sarcomeric muscle AA range: 2-50 |
| **Specificity** | This antibody detects endogenous levels of alpha-cardiac actin and alpha-actin-1 protein. |

## Target Information

**Gene name** ACTA1;ACTC1

**Protein Name** Actin, sarcomeric muscle

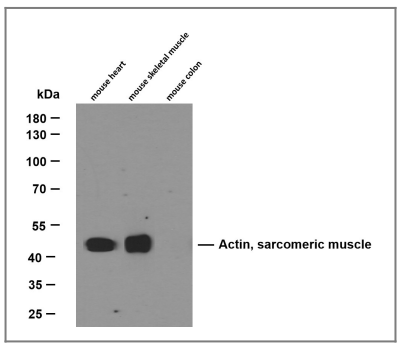
| Organism | Gene ID | UniProt ID |
|---|---|---|
| Human | 58; 70; | P68032; P68133; |

**Cellular Localization** Cytoplasmic

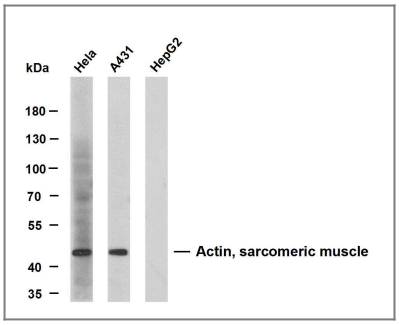
**Tissue specificity** Epithelium ,Skeletal muscle ,

**Function** Disease:Defects in ACTA1 are a cause of congenital myopathy with excess of thin myofilaments (CM) [MIM:102610]. ,Disease:Defects in ACTA1 are a cause of congenital myopathy with fiber-type disproportion (CFTD) [MIM:255310]; also known as congenital fiber-type disproportion myopathy (CFTDM) . CFTD is a genetically heterogeneous disorder in which there is relative hypotrophy of type 1 muscle fibers compared to type 2 fibers on skeletal muscle biopsy. However , these findings are not specific and can be found in many different myopathic and neuropathic conditions. ,Disease:Defects in ACTA1 are the cause of nemaline myopathy type 3 (NEM3) [MIM:161800]. Nemaline myopathy (NEM) is a form of congenital myopathy characterized by abnormal thread- or rod-like structures in muscle fibers on histologic examination. The clinical phenotype is highly variable , with differing age at onset and severity. ,Function:Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells. ,miscellaneous:In vertebrates 3 main groups of actin isoforms , alpha , beta and gamma have been identified. The alpha actins are found in muscle tissues and are a major constituent of the contractile apparatus. The beta and gamma actins coexist in most cell types as components of the cytoskeleton and as mediators of internal cell motility. ,similarity:Belongs to the actin family. ,subunit:Polymerization of globular actin (G-actin) leads to a structural filament (F-actin) in the form of a two-stranded helix. Each actin can bind to 4 others. Interacts with TTID. ,

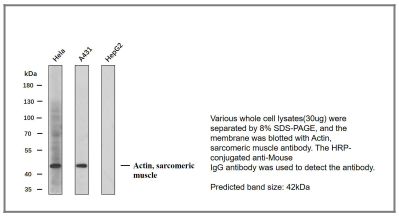
## Validation Data




Various whole cell lysates were separated by10% SDS-PAGE, and the membrane was blotted with anti-Actin, sarcomeric muscle (ABT-SCA) ) antibody. The HRP-conjugated Goat anti-Mouse IgG (H + L) antibody was used to detect the antibody. Lane 1: mouse heart Lane 2: mouse skeletal muscle Predicted band size: 42kDa Observed band size: 42kDa




Various whole cell lysates were separated by 8% SDS-PAGE, and the membrane was blotted with anti-Actin, sarcomeric muscle (ABT-SCA)antibody. The HRP-conjugated Goat anti-Mouse IgG (H + L) antibody was used to detect the antibody. Lane 1: Hela Lane 2: A431 Lane 3: HepG2




Western blot analysis of Actin, sarcomeric muscleAntibody at 1:1000 dilution.

## Contact information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|---|---|
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Please scan the QR code to access additional product information: **Actin, sarcomeric muscle (ABT-SCA) Mouse mAb**