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

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

Clonality	Monoclonal
Clone Number	ABT-SCA

Immunogen Information

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

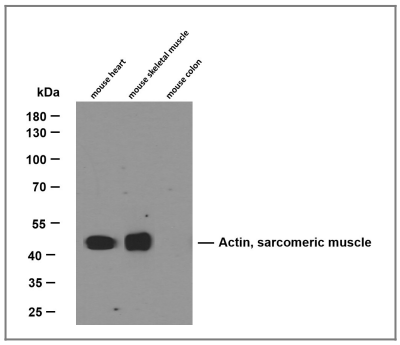
Organism	Gene ID	UniProt ID
Human	58; 70; ;	P68032; P68133;

Cellular Localization Cytoplasmic

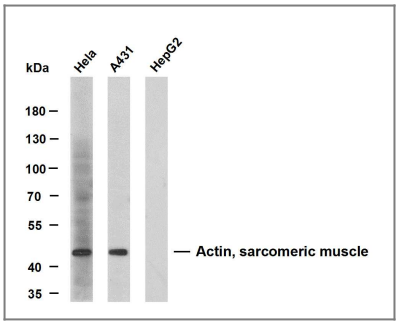
Tissue specificity Epithelium,Skeletal muscle,

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.,

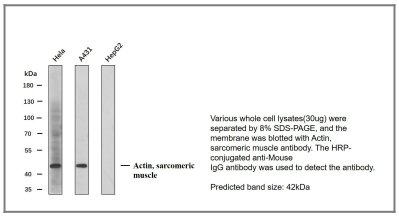
Validation Data



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