

Actin, Muscle Specific (ABT-MSA) IHC kit

CatalogNo: IHCM6142

Key Features

Host Species

- Mouse

Reactivity

- Human, Mouse, Rat, Monkey, Bovin, Pig, Chick,

Applications

- IHC

Isotype

- IgG1, Kappa

Recommended Dilution Ratios

Storage

Storage* 2°C to 8°C/1 year

Basic Information

Clonality Monoclonal

Clone Number ABT-MSA

Immunogen Information

Immunogen Synthesized peptide derived from human Actin, Muscle Specific AA range: 2-50

Specificity The antibody can specifically recognize proteins from smooth muscle, myocardium and skeletal muscle α actin and smooth muscle derived γ actin, and β actin or non smooth muscle derived γ actin does not respond.

Target Information

Gene name Actin, Muscle Specific

Protein Name Actin, Muscle Specific

Organism

Gene ID

UniProt ID

Human

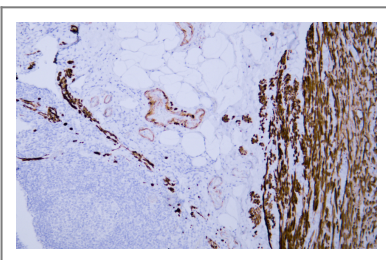
[P68032](#); [P68133](#); [P63267](#); [P62736](#);

Cellular Localization Cytoplasmic

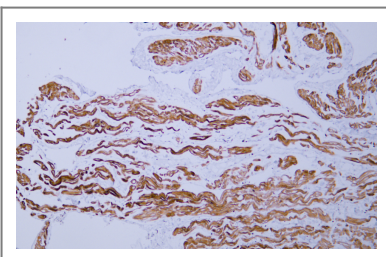
Tissue specificity Muscle,Tongue,

Function Disease:Defects in ACTC1 are the cause of cardiomyopathy dilated type 1R (CMD1R) [MIM:102540]. Dilated cardiomyopathy is a disorder characterized by ventricular dilation and impaired systolic function, resulting in congestive heart failure and arrhythmia. Patients are at risk of premature death.,Disease:Defects in ACTC1 are the cause of cardiomyopathy familial hypertrophic type 11 (CMH11) [MIM:612098]. Familial hypertrophic cardiomyopathy is a hereditary heart disorder characterized by ventricular hypertrophy, which is usually asymmetric and often involves the interventricular septum. The symptoms include dyspnea, syncope, collapse, palpitations, and chest pain. They can be readily provoked by exercise. The disorder has inter- and intrafamilial variability ranging from benign to malignant forms with high risk of cardiac failure and sudden cardiac death.,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.,

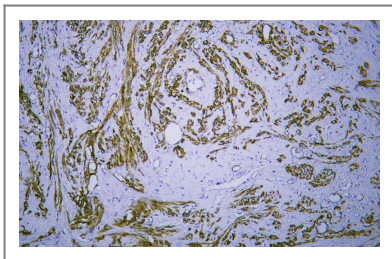
Validation Data



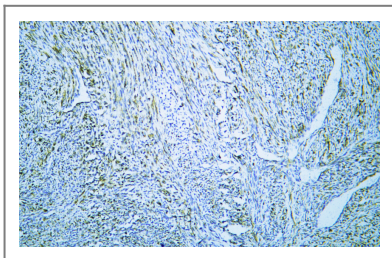
Human appendix tissue was stained with anti-MSA(ABT-MSA) antibody.



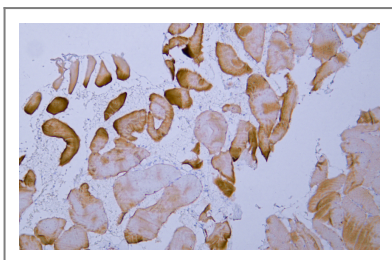
Human cardiac muscle tissue was stained with anti-MSA(ABT-MSA) antibody.



Human leiomyoma tissue was stained with anti-MSA(ABT-MSA) antibody.



Human rhabdomyosarcoma tissue was stained with anti-MSA(ABT-MSA) antibody.



Human skeletal muscle tissue was stained with anti-MSA(ABT-MSA) antibody.

Contact information

Orders: order@immunoway.com
Support: tech@immunoway.com
Telephone: 408-747-0189 (USA) 400-8787-807(China)
Website: <http://www.immunoway.com>
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



Please scan the QR code to access additional product information:
Actin, Muscle Specific (ABT-MSA) IHC kit

For Research Use Only. Not for Use in Diagnostic Procedures.

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