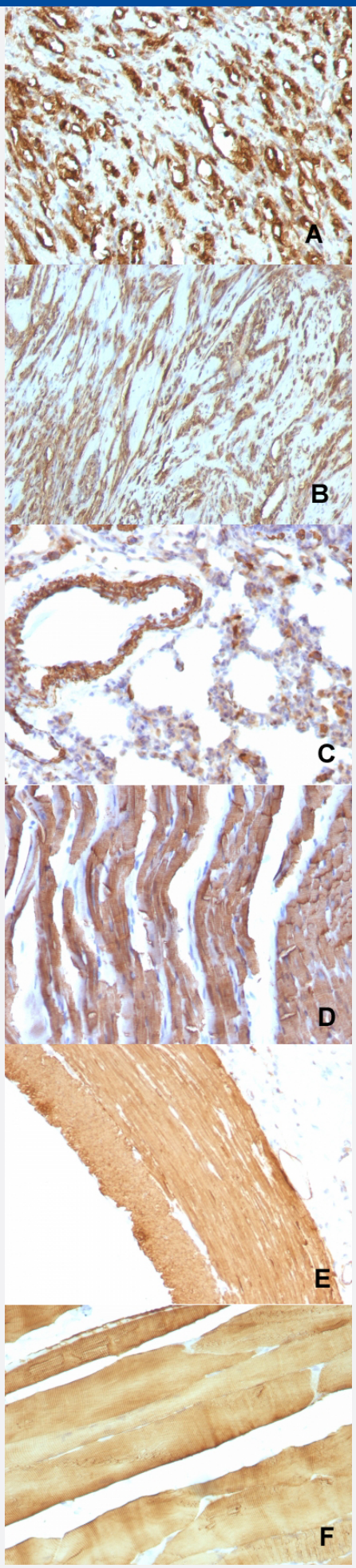
Actin (muscle specific) monoclonal antibody, clone MSA/953

Catalog # MAB14633 Size 100 ug

Applications

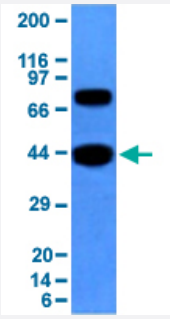
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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of (A) human rhabdomyosarcoma (B) human leiomyosarcoma (C) rat lung (D) rat heart (E) rat stomach and (F) rat skeletal muscle with Actin (muscle specific) monoclonal antibody, clone MSA/953 (Cat # MAB14633).

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Western Blot (Cell lysate)

Western Blot analysis of hSKM cell lysate with Actin (muscle specific) monoclonal antibody, clone MSA/953 (Cat # MAB14633).

Specification

Product Description	Mouse monoclonal antibody raised against synthetic peptide of human muscle actin.
Immunogen	A synthetic peptide corresponding to human muscle actins.
Host	Mouse
Reactivity	Human, Rat
Specificity	This antibody recognizes actin of skeletal, cardiac, and smooth muscle cells. It is not reactive with oth er mesenchymal cells except for myoepithelium.
Form	Liquid
Purification	Protein A/G purification
Isotype	IgG1, kappa
Recommend Usage	Flow Cytometry (0.5-1 ug/million cells in 0.1 mL) Immunofluorescence (0.5-1 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (0.25-0.5 ug/mL) Western Blot (0.5-1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 10 mM PBS (0.05% BSA and 0.05% azide).
Storage Instruction	Store at 4°C.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

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- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of (A) human rhabdomyosarcoma (B) human leiomyosarcoma (C) rat lung (D) rat heart (E) rat stomach and (F) rat skeletal muscle with Actin (muscle specific) monoclonal antibody, clone MSA/953 (Cat # MAB14633).

- Immunofluorescence

- Flow Cytometry

- Western Blot (Cell lysate)

  Western Blot analysis of hSKM cell lysate with Actin (muscle specific) monoclonal antibody, clone MSA/953 (Cat # MAB14633).

Gene Info — ACTA1

Entrez GeneID	58
Protein Accession#	P62736; P68032; P68133
Gene Name	ACTA1
Gene Alias	ACTA, ASMA, CFTD, CFTD1, CFTDM, MPFD, NEM1, NEM2, NEM3
Gene Description	actin, alpha 1, skeletal muscle
Omim ID	102610 161800 255310
Gene Ontology	Hyperlink
Gene Summary	The product encoded by this gene belongs to the actin family of proteins, which are highly conserved proteins that play a role in cell motility, structure and integrity. Alpha, beta and gamma actin isoforms have been identified, with alpha actins being a major constituent of the contractile apparatus, while beta and gamma actins are involved in the regulation of cell motility. This actin is an alpha actin that is found in skeletal muscle. Mutations in this gene cause nemaline myopathy type 3, congenital myopathy with excess of thin myofilaments, congenital myopathy with cores, and congenital myopathy with fiber-type disproportion, diseases that lead to muscle fiber defects. [provided by RefSeq
Other Designations	OTTHUMP00000036123|alpha skeletal muscle actin

Gene Info — ACTA2

Entrez GeneID	59
Protein Accession#	P62736; P68032; P68133

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Gene Name	ACTA2
Gene Alias	AAT6, ACTSA
Gene Description	actin, alpha 2, smooth muscle, aorta
Omim ID	102620
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene belongs to the actin family of proteins, which are highly conserved proteins that play a role in cell motility, structure and integrity. Alpha, beta and gamma actin isoforms have been identified, with alpha actins being a major constituent of the contractile apparatus, while beta and gamma actins are involved in the regulation of cell motility. This actin is an alpha actin that is found in skeletal muscle. Defects in this gene cause aortic aneurysm familial thoracic type 6. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq
Other Designations	OTTHUMP00000020042|alpha 2 actin|alpha-cardiac actin|growth-inhibiting gene 46

Gene Info — ACTC1

Entrez GeneID	70
Protein Accession#	P62736; P68032; P68133
Gene Name	ACTC1
Gene Alias	ACTC, CMD1R, CMH11
Gene Description	actin, alpha, cardiac muscle 1
Omim ID	102540 192600
Gene Ontology	Hyperlink
Gene Summary	Actins are highly conserved proteins that are involved in various types of cell motility. 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 four others. The protein encoded by this gene belongs to the actin family which is comprised of three main groups of actin isoforms, alpha, beta, and gamma. The alpha actins are found in muscle tissues and are a major constituent of the contractile apparatus. Defects in this gene have been associated with idiopathic dilated cardiomyopathy (IDC) and familial hypertrophic cardiomyopathy (FHC). [provided by RefSeq
Other Designations	cardiac muscle alpha actin 1

Publication Reference

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- Actin cytoskeleton. Setting the pace of cell movement.

  Barkalow K, Hartwig JH.

  Current Biology 1995 Sep; 5(9):1000.

  Application: IF, IHC, WB-Ce, WB-Ti, WB-Tr, Human, Mouse, Mammalian cells, Tissues

Pathway

- Cardiac muscle contraction
- Hypertrophic cardiomyopathy (HCM)
- Vascular smooth muscle contraction

Disease

- Acute Disease
- Alzheimer disease
- Alzheimer Disease
- Atherosclerosis
- Calcinosis
- Cardiomegaly
- Cardiomyopathies
- Cardiomyopathy
- Cardiovascular Diseases
- Cardiovascular Diseases
- Coronary Artery Disease
- Diabetes Mellitus
- Diabetes Mellitus
- Diabetes Mellitus
- Edema

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- Edema
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Myocardial Infarction
- Myopia
- Parkinson disease

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