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Datasheet for ABIN6162602  
**anti-Actin, Muscle Specific antibody (Biotin)**

### Overview

Quantity:	100 µL
Target:	Actin, Muscle Specific
Reactivity:	Human, Rabbit, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Actin, Muscle Specific antibody is conjugated to Biotin
Application:	Flow Cytometry (FACS), Immunofluorescence (IF), Immunohistochemistry (Formalin-fixed Sections) (IHC (f)), Western Blotting (WB)

### Product Details

Purpose:	Mouse Monoclonal anti-Muscle-Specific-Actin (MSA/953), Biotin Conjugate
Immunogen:	Synthetic peptide common among human muscle actins
Clone:	MSA-953
Isotype:	IgG1 kappa
Characteristics:	This antibody recognizes actin of skeletal, cardiac, and smooth muscle cells. It is not reactive with other mesenchymal cells except for myoepithelium. Actin can be resolved on the basis of its isoelectric points into three distinctive components: alpha, beta, and gamma in order of increasing isoelectric point. Anti-muscle specific actin recognizes alpha and gamma isotypes of all muscle groups. Non-muscle cells such as vascular endothelial cells and connective tissues are non-reactive. Also, neoplastic cells of non-muscle-derived tissue such as carcinomas, melanomas, and lymphomas are negative. It stains tumors of smooth muscle (leiomyomas and

## Product Details

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leiomyosarcomas) as well as skeletal muscle (rhabdomyomas and rhabdomyosarcomas). Primary antibodies are available purified, or with a selection of fluorescent CF® dyes and other labels. CF® dyes offer exceptional brightness and photostability. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors.

## Target Details

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Target:	Actin, Muscle Specific
Alternative Name:	Muscle-Specific-Actin ( <a href="#">Actin, Muscle Specific Products</a> )
Background:	ACTA, ACTA1, ACTA2, ACTC1, Actin, ACTSA, Alpha-2 actin, alpha skeletal muscle, Alpha-actin-1, Cardiac muscle alpha actin-1, Skeletal muscle alpha actin-1
Molecular Weight:	Multiple
Gene ID:	58, 59, 70
UniProt:	<a href="#">P62736</a>

## Application Details

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Application Notes:	Immunohistology formalin-fixed 0.25-0.5 µg/mL <ul style="list-style-type: none"><li>• Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes</li><li>• Immunofluorescence 0.5-1 µg/mL</li><li>• Flow Cytometry 0.5-1 µg/million cells/0.1 mL</li><li>• Western blotting 0.5-1.0 µg/mL</li><li>• Optimal dilution for a specific application should be determined by user</li></ul>
Comment:	Muscle or sarcoma
Restrictions:	For Research Use only

## Handling

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Format:	Liquid
Concentration:	100 µg/mL
Buffer:	PBS/0.1 % BSA/0.05 % azide
Preservative:	Sodium azide

## Handling

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Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.