

Actin, Muscle Specific (AB1560) mouse mAb

W0262

Key Features

Host Species

- Mouse

MW

- kDa (calculated)
- 42 kDa (observed)

Reactivity

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

Isotype

- IgG1, kappa

Applications

- IHC; WB; IF; ELISA

Recommended Dilution Ratios

Application

IHC; WB; IF; ELISA

Dilution

IHC, 1:200-1:1000 | WB, 1:500-1:2000 | IF, 1:100-1:500 | ELISA, Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Storage

Storage Conditions

Store at -20°C. Avoid freeze / thaw cycles.

Storage buffer

The antibody is provided in liquid form in phosphate - buffered saline with 50% glycerol, 0.05% BSA, and 0.05% Proclin 300.

Basic Information

Clonality Monoclonal

Clone Number AB1560

Immunogen A synthetic peptide corresponding to the amino acid region 2 - 50 of the human Actin, Muscle Specific protein.

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.

Purification Affinity purification Protein A

Concentration Product concentration may vary by batch. Please refer to the product COA for details.

Target Information

Gene name ACTC1/ACTA1/ACTG2

Protein Name Actin; Muscle Specific

Database Link	Organism	Swiss Prot.	Gene ID
	Human	P68032; P68133; P63267;	0

Background

Actin is a highly conserved cytoskeletal protein, which contains 6 isoforms, of which 4 are muscle tissue specific: α -skeletal muscle actin, α -cardiac muscle actin, α -smooth muscle actin, γ -Smooth muscle actin. Muscle actin is expressed in skeletal muscle, cardiac and smooth muscle, and muscle derived tumors such as leiomyoma and rhabdomyosarcoma. It is usually not expressed in endothelial cells, connective tissue, melanoma, lymphoma and non myogenic sarcoma.