Native Mouse skeletal muscle alpha Actin

Cat. No. Acta1-158M **Lot. No.** (See product label)

SPECIFICATION

Species	Mouse
Source	Pigeon Serum
ProteinLength	Full length native mouse skeletal muscle alpha Actin
Description	Actin is a globular, roughly 42-kDa moonlighting protein found in all eukaryotic cells (the only known exception being nematode sperm) where it may be present at concentrations of over 100 μM. It is also one of the most highly-conserved proteins, differing by no more than 20% in species as diverse as algae and humans. Actin is the monomeric subunit of two types of filaments in cells: microfilaments, one of the three major components of the cytoskeleton, and thin filaments, part of the contractile apparatus in muscle cells. Thus, actin participates in many important cellular processes including muscle contraction, cell motility, cell division and cytokinesis, vesicle and organelle movement, cell signaling, and the establishment and maintenance of cell junctions and cell shape. Many of these processes are mediated by extensive and intimate interactions of actin with cellular membranes. In vertebrates, three 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 co-exist in most cell types as components of the cytoskeleton, and as mediators of internal cell motility.
Form	Liquid

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Purity	>95% (SDS-PAGE)
Applications	Western blotting,ELISA,etc.
Storage	Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage Buffer	PBS

GENE INFORMATION

Gene Name	Acta1 actin, alpha 1, skeletal muscle [Mus musculus]
Official Symbol	Acta1
Synonyms	ACTA1; actin, alpha 1, skeletal muscle; actin, alpha skeletal muscle; alpha-actin-1; Acts; Acta-2; Actsk-1; AA959943;
Gene ID	11459
mRNA Refseq	NM_009606
Protein Refseq	NP_033736
Pathway	Hypothetical Network for Drug Addiction, organism-specific biosystem; Myometrial Relaxation and Contraction Pathways, organism-specific biosystem; Striated Muscle Contraction, organism-specific biosystem;
Function	ATP binding; nucleotide binding;

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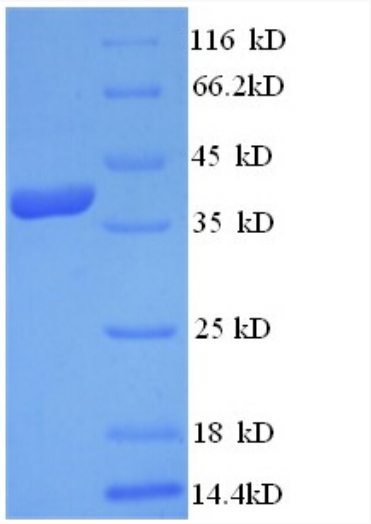

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