ACTA1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Actin (ACTA1), Polyclonal Antibody
Full Product Name	Actin Polyclonal Antibody Cy5.5 Conjugated
Product Gene Name	anti-ACTA1 antibody
Product Synonym Names	Actin
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Purity/Purification	affinity purified by Protein A
Preparation and Storage	Ship at 4 degree C. Store at -20 degree C for one year. Avoid repeated freeze/thaw cycles.
Molecular Weight	42,051 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (229566992..229569843, complement). Location: 1q42.13
OMIM	102610
3D Structure	ModBase 3D Structure for P68133
Immunogen Type	3-100/377
Conjugation	Cy5.5
Product Categories/Family for anti-ACTA1 antibody	Conjugated Primary Antibody
Applications Tested/Suitable for anti-ACTA1 antibody	Immunocytochemistry (ICC), Immunofluorescence (IF)
Application Notes for anti-ACTA1 antibody	ICC: 1:50-200 IF: 1:50-200
Related Product Information for anti-ACTA1 antibody	MBS9464260 is an antibody targeting ACTA1. Also known as Actin Polyclonal Antibody Cy5.5 Conjugated. Reactive in Human, Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-ACTA1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ACTA1. It may not necessarily be applicable to this product.

NCBI GI #	4501881
NCBI GeneID	58
NCBI Accession #	NP_001091.1
UniProt Primary Accession #	P68133

UniProt Secondary Accession #	P02568; P99020; Q5T8M9
UniProt Related Accession #	P68133
GenBank Nucleotide #	NM_001100.3
NCBI Official Full Name	actin, alpha skeletal muscle
NCBI Official Synonym Full Names	actin, alpha 1, skeletal muscle
NCBI Official Symbol	ACTA1
NCBI Official Synonym Symbols	ACTA; ASMA; CFTD; MPFD; NEM1; NEM2; NEM3; CFTD1; CFTDM
UniProt Protein Name	Actin, alpha skeletal muscle
UniProt Synonym Protein Names	Alpha-actin-1
Protein Family	Actin
UniProt Gene Name	ACTA1
UniProt Synonym Gene Names	ACTA
UniProt Entry Name	ACTS_HUMAN
NCBI Protein Information	actin, alpha skeletal muscle; nemaline myopathy type 3
NCBI Summary for ACTA1	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, Jul 2008]
UniProt Comments for ACTA1	ACTA1: Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells. 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. Interacts with TTID. Interacts (via its C-terminus) with USP25; the interaction occurs for all USP25 isoforms but is strongest for isoform USP25m in muscle differentiating cells. Belongs to the actin family. Protein type: Cell development/differentiation; Motility/polarity/chemotaxis; Contractile; Cytoskeletal Chromosomal Location of Human Ortholog: 1q42.13 Cellular Component: extracellular space; sarcomere; stress fiber; actin filament; cytosol; striated muscle thin filament; actin cytoskeleton Molecular Function: protein binding; myosin binding; structural constituent of cytoskeleton; ADP binding; ATP binding Biological Process: skeletal muscle fiber adaptation; muscle contraction; muscle thin filament assembly; response to steroid hormone stimulus; response to mechanical stimulus; response to lithium ion; response to extracellular stimulus; skeletal muscle fiber development; cell growth; muscle filament sliding Disease: Nemaline Myopathy 3; Myopathy, Congenital, With Fiber-type Disproportion
Research Articles on ACTA1	**1.** analysis of the pattern of of evolutionarily conserved basic and acidic residues that constitutes the binding interface of actin-tropomyosin
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-antibody/actin/9464260