

Human Actin, alpha Skeletal Muscle (ACTA1) ELISA Kit | ACTA1 elisa kit

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CATALOG #
AAA331080

REACTIVITY
Human

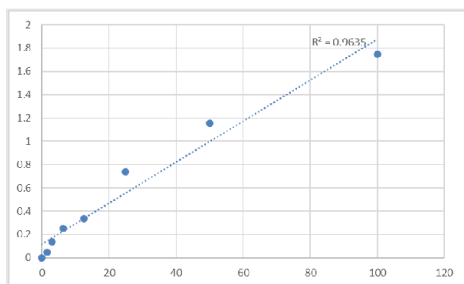
PRODUCT SYNONYMS

Actin; alpha Skeletal Muscle (ACTA1); Human Actin; alpha Skeletal Muscle (ACTA1) ELISA Kit; ACTA1; RP5-1068B5.2; ACTA; ASMA; CFTD; CFTD1; CFTDM; MPFD; NEM1; NEM2; NEM3; alpha skeletal muscle actin; ACTA1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Actin, alpha skeletal muscle (ACTA1) ELISA Kit has high sensitivity and excellent specificity for detection of Human ACTA1. No significant cross-reactivity or interference between Human ACTA1 and analogues was observed.
Sequence Length	377
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Actin, alpha skeletal muscle (ACTA1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for ACTA1 elisa kit	Description: This Human Actin, alpha skeletal muscle (ACTA1) ELISA Kit employs a two-site sandwich ELISA to quantitate ACTA1 in samples. An antibody specific for ACTA1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any ACTA1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ACTA1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of ACTA1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Actin alpha 1 which is expressed in skeletal muscle is one of six different actin isoforms which have been identified. Actins are highly conserved proteins that are involved in cell motility, structure and integrity. Alpha actins are a major constituent of the contractile apparatus. Skeletal alpha actin expression is induced by stimuli and conditions known to cause muscle formation. Such conditions result in fusion of committed cells (satellite cells) into myotubes, to form muscle fibers. Skeletal actin itself, when expressed, causes expression of several other "myogenic genes", which are essential to muscle formation. One key transcription factor that activates skeletal actin gene expression is Serum Response Factor ("SRF"), a protein that binds to specific sites on the promoter DNA of the actin gene.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4501881
NCBI GeneID	58
NCBI Accession #	NP_001091.1
NCBI GenBank Nucleotide #	NP_001091.1
UniProt Accession #	P68133
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; SHPM; CFTD1; CFTDM
NCBI Protein Information	actin, alpha skeletal muscle
UniProt Protein Name	Actin, alpha skeletal muscle
UniProt Gene Name	ACTA1
UniProt Synonym Gene Names	ACTA
UniProt Entry Name	ACTS_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.