

Actin Alpha 1, Skeletal Muscle (ACTa1) ELISA Kit | ACTa1 elisa kit

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CATALOG #
AAA137553

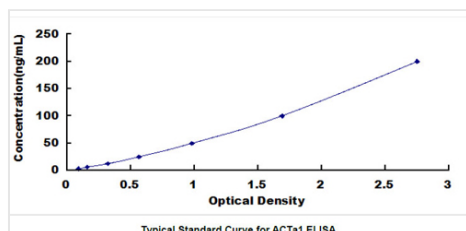
PRODUCT SYNONYMS

Actin Alpha 1; Skeletal Muscle (ACTa1); Skeletal Muscle (ACTa1) ELISA Kit; ACTa1 elisa kit

PRODUCT SPECIFICATIONS

Specificity	This assay has high sensitivity and excellent specificity for detection of Actin Alpha 1, Skeletal Muscle (ACTa1). No significant cross-reactivity or interference between Actin Alpha 1, Skeletal Muscle (ACTa1) and analogues was observed.
Sequence Length	254
Samples	Tissue homogenates, Cell lysates, cell culture supernates and other biological fluids
Assay Type	Sandwich
Detection Range	3.125-200ng/mL The standard curve concentrations used for the ELISA's were 200ng/mL, 100ng/mL, 50ng/mL, 25ng/mL, 12.5ng/mL, 6.25ng/mL, 3.125ng/mL
Sensitivity	Typically less than 1.38ng/mL.
Organism Species	Homo sapiens (Human), Mus musculus (Mouse), Rattus norvegicus (Rat)
ELISA Type	Sandwich
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Actin Alpha 1, Skeletal Muscle (ACTa1) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Actin Alpha 1, Skeletal Muscle (ACTa1) were tested on 3 different plates, 8 replicates in each plate. $CV(\%) = SD/mean \times 100$ Intra-Assay: $CV < 10\%$ Inter-Assay: $CV < 12\%$
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ACTa1 elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Actin Alpha 1, Skeletal Muscle (ACTa1). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Actin Alpha 1, Skeletal Muscle (ACTa1). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Actin Alpha 1, Skeletal Muscle (ACTa1), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Actin Alpha 1, Skeletal Muscle (ACTa1) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	30908859
NCBI GeneID	58
UniProt Accession #	P68133; P02568; P99020; Q5T8M9
Molecular Weight	42,051 Da
NCBI Official Full Name	actin alpha 1 skeletal muscle protein
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
NCBI Protein Information	actin, alpha skeletal muscle; nemaline myopathy type 3
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.