

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

Multi-species Actin Alpha 1, Skeletal Muscle (ACTa1) ELISA Kit

CATALOG #
AAA184896

REACTIVITY
Human, Mouse, Rat

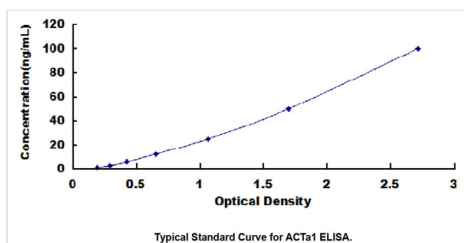
PRODUCT SYNONYMS

Actin Alpha 1; Skeletal Muscle (ACTa1); Multi-species Actin Alpha 1; Skeletal Muscle (ACTa1) ELISA Kit; Human/Mouse/Rat Actin Alpha 1; Skeletal Muscle (ACTa1) (Sandwich ELISA) ELISA Kit; ACT-A1; ASMA; CFTD; CFTD1; CFTDM; MPFD; NEM1; NEM2; NEM3; ACTa1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Specificity	This assay has high sensitivity for detection of ACTa1. 100% cross-reactivity of ACTa1 was observed among human, mouse and rat.
Sequence Length	254
Assay Type	Quantitative Sandwich
Samples	Tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	1.56-100ng/mL
Sensitivity	< 0.59ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level ACTa1 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level ACTa1 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. 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	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to ACTa1. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to 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 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 ACTa1 in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of ACTa1 in tissue homogenates, cell lysates, cell culture supernates and other biological fluids. Due to the 89% homology of the sequence among different species, the kit can be used to detect human, mouse and rat samples.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	30908859
NCBI GeneID	58
Molecular Weight	28,151 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; SHPM; CFTD1; CFTDM
NCBI Protein Information	actin, alpha skeletal muscle
UniProt Protein Name	Actin alpha 1 skeletal muscle protein
UniProt Gene Name	ACTA1

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.

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Online datasheet: <https://stage.aaabiotech.com/human-mouse-rat-elisa-kits/actin-alpha-1-skeletal-muscle-acta1/184896>