

Actin Alpha 2, Smooth Muscle (ACTa2) ELISA Kit | ACTa2 elisa kit

Multi-species Actin Alpha 2, Smooth Muscle (ACTa2) ELISA Kit

CATALOG #
AAA20803

REACTIVITY
Human, Mouse, Rat

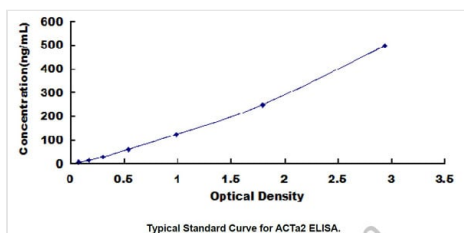
PRODUCT SYNONYMS

Actin Alpha 2; Smooth Muscle (ACTa2); Multi-species Actin Alpha 2; Smooth Muscle (ACTa2) ELISA Kit; Human/Mouse/Rat Actin Alpha 2; Smooth Muscle (ACTa2) (Sandwich ELISA) ELISA Kit; ACT-A2; ACTSA; ACTVS; Asma; GIG46; Cell growth-inhibiting gene 46 protein; ACTa2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Specificity	This assay has high sensitivity for detection of ACTa2. 100% cross-reactivity of ACTa2 was observed among human, mouse and rat.
Sequence Length	377
Assay Type	Quantitative Sandwich
Samples	Tissue homogenates, cell lysates and other biological fluids
Detection Range	7.8-500ng/mL
Sensitivity	< 2.9ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level ACTa2 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 ACTa2 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 ACTa2 elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to ACTa2. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to ACTa2. 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 ACTa2, 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 ACTa2 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 ACTa2 in tissue homogenates, cell lysates and other biological fluids. Due to the 100% homology of the sequence among different species, the kit can be used to detect human, mouse and rat samples.
Product Categories/Family for ACTa2 elisa kit	Developmental science; Bone metabolism

NCBI AND UNIPROT INFORMATION

NCBI GI #	119570540
NCBI GeneID	59
Molecular Weight	42,009 Da
NCBI Official Full Name	actin, alpha 2, smooth muscle, aorta, isoform CRA_a
NCBI Official Synonym Full Names	actin, alpha 2, smooth muscle, aorta
NCBI Official Symbol	ACTA2
NCBI Official Synonym Symbols	AAT6; ACTSA; MYMY5
NCBI Protein Information	actin, aortic smooth muscle
UniProt Protein Name	Actin, alpha 2, smooth muscle, aorta
UniProt Gene Name	ACTA2
UniProt Entry Name	D2JYH4_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.

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Online datasheet: <https://www.aaabiotech.com/human-mouse-rat-elisa-kits/actin-alpha-2-smooth-muscle-acta2/20803>