

Human Actin Gamma 2, Smooth Muscle (ACTg2) ELISA Kit | ACTg2 elisa kit

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CATALOG #
AAA136514

REACTIVITY
Human

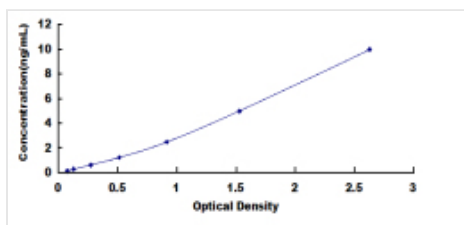
PRODUCT SYNONYMS

Actin Gamma 2; Smooth Muscle (ACTg2); Human Actin Gamma 2; Smooth Muscle (ACTg2) ELISA Kit; ACT; ACT-G2; ACTA3; ACTE; ACTL3; ACTSG; Alpha-actin-3; ACTg2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Actin Gamma 2, Smooth Muscle (ACTg2). No significant cross-reactivity or interference between Actin Gamma 2, Smooth Muscle (ACTg2) and analogues was observed.
Sequence Length	333
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	0.056ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Actin Gamma 2, Smooth Muscle (ACTg2) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Actin Gamma 2, Smooth Muscle (ACTg2) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
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 ACTg2 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 Gamma 2, Smooth Muscle (ACTg2). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Actin Gamma 2, Smooth Muscle (ACTg2). 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 Gamma 2, Smooth Muscle (ACTg2), 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 Gamma 2, Smooth Muscle (ACTg2) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for ACTg2 elisa kit	Developmental science; Bone metabolism

NCBI AND UNIPROT INFORMATION

NCBI GI #	315570273
NCBI GeneID	72
NCBI Accession #	NP_001186822.1
NCBI GenBank Nucleotide #	NM_001199893.1
Molecular Weight	37,083 Da
NCBI Official Full Name	actin, gamma-enteric smooth muscle isoform 2
NCBI Official Synonym Full Names	actin, gamma 2, smooth muscle, enteric
NCBI Official Symbol	ACTG2
NCBI Official Synonym Symbols	ACT; ACTE; VSCM; ACTA3; ACTL3; ACTSG
NCBI Protein Information	actin, gamma-enteric smooth muscle
UniProt Protein Name	Actin, gamma-enteric smooth muscle
UniProt Gene Name	ACTG2
UniProt Synonym Gene Names	ACTA3; ACTL3; ACTSG
UniProt Entry Name	ACTH_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/actin-gamma-2-smooth-muscle-actg2/136514>