

Human Actin, aortic smooth muscle ELISA Kit | ACTA2 elisa kit

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CATALOG #
AAA100205

REACTIVITY
Human

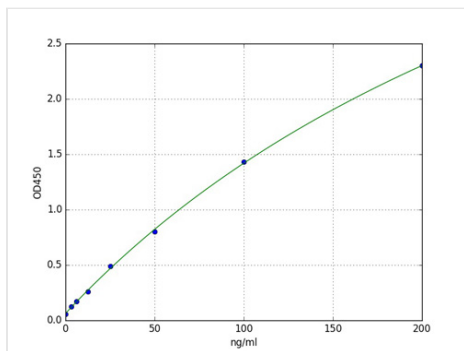
PRODUCT SYNONYMS

Actin; aortic smooth muscle; Human Actin; aortic smooth muscle ELISA Kit; alpha-SMA (Alpha-Smooth Muscle Actin)/ACTA2/AAT6/Actin alpha 2/ACTSA/ACTVS/MYMY5/SMA/actin; alpha 2; smooth muscle; aorta/actin; aortic smooth muscle/alpha 2 actin/alpha SMA/alpha-actin-2/Alpha-actin-2/alpha-SMA/Cell growth-inhibiting gene 46 protein/growth-inhibiting gene 46; ACTA2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Sequence Length	377
Assay Type	Sandwich ELISA, Double Antibody
Samples	cell or tissue lysate, Other liquid samples
Detection Range	0.313-20ng/ml
Sensitivity	0.188ng/ml
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

Typical Data & Standard Curve

Results of a typical standard run of a α -SMA ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A=not applicable)

X	ng/ml	0	3.125	6.25	12.5	25	50	100	200
Y	OD450	0.008	0.068	0.131	0.254	0.467	0.877	1.693	2.612

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ACTA2 elisa kit

Principle of the Assay||This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-alpha-SMA antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-alpha-SMA antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the alpha-SMA amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of alpha-SMA can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4501883
NCBI GeneID	59
NCBI Accession #	NP_001604.1
NCBI GenBank Nucleotide #	NM_001613.2
Molecular Weight	42,009 Da
NCBI Official Full Name	actin, aortic smooth muscle
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, aortic smooth muscle
UniProt Gene Name	ACTA2
UniProt Synonym Gene Names	ACTSA; ACTVS
UniProt Entry Name	ACTA_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/acta2-human-elisa-kits/actin-aortic-smooth-muscle/100205>