

Sheep alpha Smooth Muscle Actin ELISA Kit | alpha-SMA elisa kit

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CATALOG #
AAA89951

REACTIVITY
Sheep

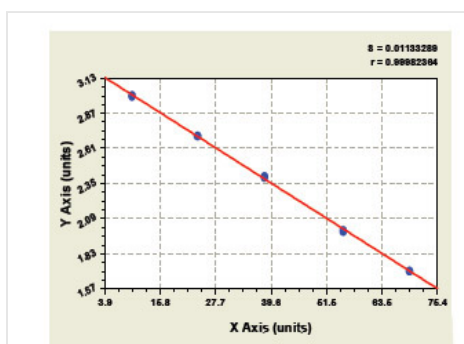
PRODUCT SYNONYMS

alpha Smooth Muscle Actin; Sheep alpha Smooth Muscle Actin ELISA Kit; Sheep a Smooth Muscle Actin ELISA Kit; alpha-SMA elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Sheep
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Sensitivity	1.0 ng/mL.
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for alpha-SMA elisa kit

For samples: Serum, plasma, cell culture supernatants, body fluid and tissue homogenate

INTENDED USE This ?-SMA ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Sheep ?-SMA. This ELISA kit for research use only!

PRINCIPLE OF THE ASSAY ?-SMA ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-?-SMA antibody and an ?-SMA-HRP conjugate. The assay sample and buffer are incubated together with ?-SMA-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the ?-SMA concentration since ?-SMA from samples and ?-SMA-HRP conjugate compete for the anti-?-SMA antibody binding site. Since the number of sites is limited, as more sites are occupied by ?-SMA from the sample, fewer sites are left to bind ?-SMA-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The ?-SMA concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	213688375
NCBI GeneID	59
NCBI Accession #	NP_001135417.1
NCBI GenBank Nucleotide #	NM_001141945.1
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; alpha-cardiac actin; cell growth-inhibiting gene 46 protein
UniProt Protein Name	Actin, aortic smooth muscle
UniProt Gene Name	ACTA2
UniProt Synonym Gene Names	ACTSA; ACTVS; GIG46
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/alpha-sma-sheep-elisa-kits/alpha-smooth-muscle-actin/89951>