

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

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CATALOG #
AAA16647

REACTIVITY
Mouse

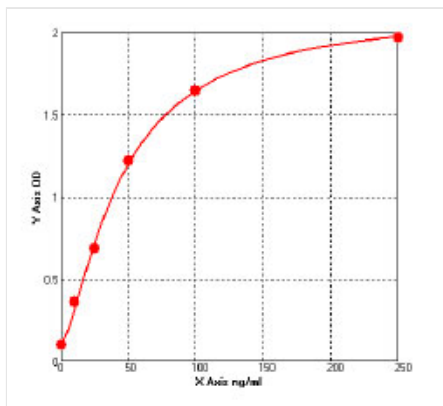
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of SMAalpha. No significant cross-reactivity or interference between SMAalpha and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between SMAalpha and all the analogues, therefore, cross reaction may still exist in some cases.
Assay Type	Quantitative Competitive or Sandwich
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
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	Principle of the Assay: SMAalpha ELISA kit applies the quantitative sandwich enzyme immunoassay technique. The microtiter plate has been pre-coated with a monoclonal antibody specific for SMAalpha. Standards or samples are then added to the microtiter plate wells and SMAalpha if present, will bind to the antibody pre-coated wells. In order to quantitatively determine the amount of SMAalpha present in the sample, a standardized preparation of horseradish peroxidase (HRP)-conjugated polyclonal antibody, specific for SMAalpha are added to each well to "sandwich" the SMAalpha immobilized on the plate. The microtiter plate undergoes incubation, and then the wells are thoroughly washed to remove all unbound components. Next, substrate solutions are added to each well. The enzyme (HRP) and substrate are allowed to react over a short incubation period. Only those wells that contain SMAalpha and enzyme-conjugated antibody will exhibit a change in color. The enzyme-substrate reaction is terminated by addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The SMAalpha concentration in each sample is interpolated from this standard curve. Intended Uses: This SMAalpha ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Mouse SMAalpha. This ELISA kit for research use only, not for therapeutic or diagnostic applications!
Product Categories/Family for alpha-SMA elisa kit	Signal Transduction

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.

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Online datasheet: <https://stage.aaabiotech.com/alpha-sma-mouse-elisa-kits/alpha-smooth-muscle-actin/16647>