

## Human Alpha Smooth Muscle Actin ELISA Kit | AlphaSMA elisa kit

Human Alpha Smooth Muscle Actin ELISA Kit

CATALOG #  
**AAA16593**

REACTIVITY  
**Human**

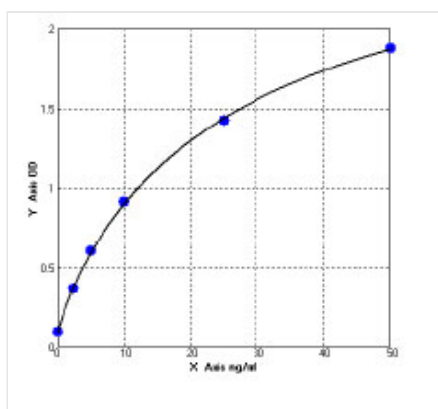
### PRODUCT SYNONYMS

Alpha Smooth Muscle Actin; Human Alpha Smooth Muscle Actin ELISA Kit; AlphaSMA elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                            |
|-------------------------|----------------------------------------------------------------------------|
| Reactivity              | Human                                                                      |
| Samples                 | Serum, Plasma, Cell Culture Supernatants, Body Fluid And Tissue Homogenate |
| Assay Type              | Quantitative 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 AlphaSMA elisa kit

**Intended Uses:** This SMAalpha ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Guinea pig SMAalpha. This ELISA kit for research use only!

**Principle of the Assay:** SMAalpha ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-SMAalpha antibody and an SMAalpha-HRP conjugate. The assay sample and buffer are incubated together with SMAalpha-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 SMAalpha concentration since SMAalpha from samples and SMAalpha-HRP conjugate compete for the anti-SMAalpha antibody binding site. Since the number of sites is limited, as more sites are occupied by SMAalpha from the sample, fewer sites are left to bind SMAalpha-HRP conjugate. 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.

## 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                | <b>ACTA2</b>                                                                             |
| 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/alphasma-human-elisa-kits/alpha-smooth-muscle-actin/16593>