

Human  $\alpha$ 2-Smooth muscle actin ( $\alpha$ 2-SMA) ELISA Kit

Catalog No: #EK7671



Package Size: #EK7671-1 48T #EK7671-2 96T

Orders: order@signalwayantibody.com

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## Description

Product Name	Human $\alpha$ 2-Smooth muscle actin ( $\alpha$ 2-SMA) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	AAT6; ACTSA; alpha 2 actin alpha-cardiac actin growth-inhibiting gene 46
Accession No.	P62736
Uniprot	P62736
GeneID	59;
Storage	<p>The stability of ELISA 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.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

## Application Details

Detect Range:7.8-500 ng/mL

Sensitivity:2.9 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200  $\mu$ L

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate ACTA2 in samples. An antibody specific for ACTA2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyACTA2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ACTA2 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of ACTA2 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Alpha-actin-2 also known as actin, aortic smooth muscle or alpha smooth muscle actin ( $\alpha$ -SMA, SMactin, alpha-SM-actin, ASMA) is a protein that in humans is encoded by the ACTA2 gene located on 10q22-q24.

Actin alpha 2, the human aortic smooth muscle actin gene, is one of six different actin isoforms which have been identified. Actins are highly conserved proteins that are involved in cell motility, structure and integrity. Alpha actins are a major constituent of the contractile apparatus.

Alpha-smooth muscle actin ( $\alpha$ -SMA) is commonly used as a marker of myofibroblast formation (Nagamoto et al., 2000).

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Note: This product is for in vitro research use only