

Human Actin, alpha cardiac muscle 1 (ACTC1) ELISA Kit



Catalog No: #EK7676

Orders: order@signalwayantibody.com

Package Size: #EK7676-1 48T #EK7676-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Actin, alpha cardiac muscle 1 (ACTC1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	ACTC; ASD5; CMD1R; CMH11; cardiac muscle alpha actin 1
Accession No.	P68032
Uniprot	P68032
GeneID	70;
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:23.44-1500 pg/mL

Sensitivity:5.8 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

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 ACTC1 in samples. An antibody specific for ACTC1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyACTC1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ACTC1 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 ACTC1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Actin, alpha cardiac muscle 1 is a protein encoded by the ACTC1 gene.Actins are highly conserved proteins that are involved in various types of cell motility. Polymerization of globular actin (G-actin) leads to a structural filament (F-actin) in the form of a two-stranded helix. Each actin can bind to four others.

The protein encoded by this gene belongs to the actin family which is composed of three main groups of actin isoforms, alpha, beta, and gamma. The alpha actins are found in muscle tissues and are a major constituent of the contractile apparatus. Defects in this gene have been associated with idiopathic dilated cardiomyopathy (IDC) and familial hypertrophic cardiomyopathy (FHC).

Note: This product is for in vitro research use only