

Human Steroidogenic acute regulatory protein, mitochondrial (STAR) ELISA Kit

Catalog No: #EK6670



Package Size: #EK6670-1 48T #EK6670-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Human Steroidogenic acute regulatory protein, mitochondrial (STAR) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	STARD1; START domain containing 1 StAR-related lipid transfer (START) domain containing 1 cholesterol trafficker mitochondrial steroid acute regulatory protein steroid acute regulatory protein stero
Accession No.	P49675
Uniprot	P49675
GeneID	6770;
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:0.156-10 ng/mL
Sensitivity:0.064 ng/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 STAR in samples. An antibody specific for STAR has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySTAR present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for STAR 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 STAR bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:The steroidogenic acute regulatory protein is a transport protein that regulates cholesterol transfer within the mitochondria, which is the rate-limiting step in the production of steroid hormones. It is primarily present in steroid-producing cells, including theca cells and luteal cells in the ovary, Leydig cells in the testis and cell types in the adrenal cortex. The domain of StAR important for promoting cholesterol transfer is the StAR-related transfer domain (START domain). StAR is the prototypic member of the START domain family of proteins and is thus also known as STARD1 for "START domain-containing protein 1". It is hypothesized that the START domain forms a pocket in StAR that binds single cholesterol molecules for delivery to P450scc.

Note: This product is for in vitro research use only