

Human Steroidogenic Acute Regulatory Protein, Mitochondrial (STAR) ELISA Kit | STAR elisa kit

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CATALOG # AAA330590	REACTIVITY Human
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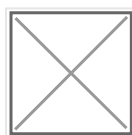
PRODUCT SYNONYMS

Steroidogenic Acute Regulatory Protein; Mitochondrial (STAR); Human Steroidogenic Acute Regulatory Protein; Mitochondrial (STAR) ELISA Kit; STAR; 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; STAR elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Steroidogenic acute regulatory protein, mitochondrial (STAR) ELISA Kit has high sensitivity and excellent specificity for detection of Human STAR. No significant cross-reactivity or interference between Human STAR and analogues was observed.
Sequence Length	285
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Steroidogenic acute regulatory protein, mitochondrial (STAR) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for STAR elisa kit	Description: This Human Steroidogenic acute regulatory protein, mitochondrial (STAR) ELISA Kit 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 any STAR 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. Background: 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	71152974
NCBI GeneID	6770
UniProt Accession #	P49675
NCBI Official Full Name	Steroidogenic acute regulatory protein, mitochondrial
NCBI Official Synonym Full Names	steroidogenic acute regulatory protein
NCBI Official Symbol	STAR
NCBI Official Synonym Symbols	STARD1
NCBI Protein Information	steroidogenic acute regulatory protein, mitochondrial
UniProt Protein Name	Steroidogenic acute regulatory protein, mitochondrial
UniProt Gene Name	STAR
UniProt Synonym Gene Names	STARD1; StAR; StARD1
UniProt Entry Name	STAR_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/human-elisa-kits/steroidogenic-acute-regulatory-protein-mitochondrial-star/330590>