Rat Thyroid stimulating hormone receptor (TSHR) ELISA Kit

Catalog No: #EK11963

Package Size: #EK11963-1 48T #EK11963-2 96T

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

Description

Product Name	Rat Thyroid stimulating hormone receptor (TSHR) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (Rattus norvegicus)
Other Names	CHNG1; LGR3; MGC75129; hTSHR-I; seven transmembrane helix receptor|thyroid stimulating hormone receptor; isoform 2|thyrotropin receptor|thyrotropin receptor-I; hTSHR-I
Accession No.	P21463
Uniprot	P21463
GeneID	25360;
Storage	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. 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).

Application Details

Detect Range:0.312-20 ng/mL

Sensitivity:0.118 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 TSHR in samples. An antibody specific for TSHR has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTSHR present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TSHR 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 TSHR bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:The thyrotropin receptor is a protein responds to thyroid-stimulating hormone (also known as "thyrotropin", and stimulates the production of thyroxine (T4) and triiodothyronine (T3). The TSH receptor is a member of the G-protein coupled receptor superfamily of integral membrane proteins.It is primarily found on the surface of the thyroid epithelial cells.It should not be confused with "thyrotropin-releasing hormone" (TRH) or "thyrotropin-releasing hormone receptor" (TRHR).The deduced 764-amino acid protein has a molecular mass of 86.8 kD and contains a signal peptide, 7 transmembrane regions, 5 potential glycosylation sites, and a short intracytoplasmic region. The TSHR cDNA encoded a functional receptor that activated adenylate cyclase in response to TSH.

Note: This product is for in vitro research use only