

Human Thyrotropin receptor ELISA Kit | TSHR elisa kit

Human Thyrotropin receptor ELISA Kit

CATALOG #
AAA102046

REACTIVITY
Human

PRODUCT SYNONYMS

Thyrotropin receptor; Human Thyrotropin receptor ELISA Kit; TSHR/CHNG1/LGR3/CHNG1/LGR3hTSHR-I/seven transmembrane helix receptor/thyroid stimulating hormone receptor/Thyroid-stimulating hormone receptor/thyrotropin receptor/thyrotropin receptor-I; hTSHR-I/TSH-R; TSHR elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of TSH. No significant cross-reactivity or interference between TSH and analogues was observed.
Sequence Length	253
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	31.25-2000pg/ml
Sensitivity	18.75pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level TSH were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level TSH were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard operation of a TSHR ELISA Kit are listed below. This standard curve was generated at our lab for demonstration purpose only. Users shall obtain standard curve as per experiment by themselves. (N/A=not applicable)

X	pg/ml	0	31.25	62.5	125	250	500	1000	2000
Y	OD450	0.150	0.337	0.557	0.777	1.168	1.641	2.224	2.459

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TSHR elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-TSH antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-TSH antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the TSH amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of TSH can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	5705928
NCBI GeneID	7253
Molecular Weight	30,800 Da
NCBI Official Full Name	thyrotropin receptor
NCBI Official Synonym Full Names	thyroid stimulating hormone receptor
NCBI Official Symbol	TSHR
NCBI Official Synonym Symbols	LGR3; CHNG1; hTSHR-I
NCBI Protein Information	thyrotropin receptor
UniProt Protein Name	Thyrotropin receptor
UniProt Gene Name	TSHR
UniProt Synonym Gene Names	LGR3; TSH-R
UniProt Entry Name	TSHR_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/tshr-human-elisa-kits/thyrotropin-receptor/102046>