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TSHR

Reactivity: Mouse

Tested applications:WB

Recommended Dilution:WB 1:500 - 1:2000

Calculated MW:87kDa

Observed MW: Refer to Figures

Immunogen:

A synthetic peptide of human TSHR

Storage Buffer:

Store at 4. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

CHNG1; LGR3; MGC75129; hTSHR-I

Catalog #:A1012

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID:7253

Isotype: IgG

Swiss Prot:P16473

Purity: Affinity purification

For research use only.

Background:

Thyroid stimulating hormone (also known as thyrotropin or TSH) is a glycoprotein hormone produced by thyrotrophs in the anterior pituitary gland. The TSH receptor (TSHR), mainly expressed on the thyroid epithelial cells, is a G protein-coupled receptor (GPCR) of the seven-transmembrane domain family and plays a central role in controlling thyroid cell metabolism. The gene of TSHR maps to chromosome 14q31.1, and encodes a 764-amino acid protein with a predicted unmodified molecular weight of 86.8 kDa. The apparent molecular weight of glycosylated form is 95-120 kDa. Studies reveal that TSHR is composed of two subunits, A and B, which are produced by cleavage of single-chain TSHR on the cell surface and subsequently connected by disulfide bonds. This rabbit polyclonal antibody raised against N-terminal region (1-243 aa) of human TSHR can detect subunit A with an experimentally determined molecular weight of 62-70 kDa under reducing condition. (PMID: 20578897, 17158770, 12593718)

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