

TSHR Polyclonal Antibody

Catalog number: 14450-1-AP

Size: 35 µg/150 µl

Source: Rabbit

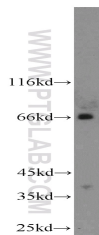
Isotype: IgG

Synonyms:

TSHR; CHNG1, hTSHR I, LGR3,

Thyrotropin receptor, TSH R,

TSHR



HeLa cells were subjected to SDS PAGE followed by western blot with 14450-1-AP (TSHR antibody) at dilution of 1:1000

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 (1-253 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)

Applications

Tested applications:	ELISA, WB
Cited applications:	WB
Species specificity:	Human, Mouse; other species not tested.
Cited species:	Human
Calculated TSHR MW:	87 kDa
Observed TSHR MW:	62-70kd
Positive WB detected in	HeLa cells, mouse ovary tissue, mouse thymus tissue
Recommended dilution:	WB: 1:500-1:5000

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag5957
GenBank accession number:	BC063613
Gene ID (NCBI):	7253
Full name:	Thyroid stimulating hormone receptor

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.