

For Research Use Only

TSHR Polyclonal antibody

Catalog Number: 14450-1-AP

Featured Product

13 Publications



Basic Information

Catalog Number:

14450-1-AP

Size:

233 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG5957

GenBank Accession Number:

BC063613

GeneID (NCBI):

7253

UNIPROT ID:

P16473

Full Name:

thyroid stimulating hormone receptor

Calculated MW:

87 kDa

Observed MW:

62-70 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

Applications

Tested Applications:

WB, ELISA

Cited Applications:

IF, IHC, WB

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, zebrafish

Positive Controls:

WB : HeLa cells, mouse thymus tissue, mouse ovary tissue, rat thymus tissue

Background Information

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 glycosylated subunit A with an experimentally determined molecular weight of 62-70 kDa under reducing condition. (PMID: 20578897, 17158770, 12593718)

Notable Publications

Author	Pubmed ID	Journal	Application
Jing Zhang	36142613	Int J Mol Sci	WB
Jianlu Song	30323976	Am J Cancer Res	WB
Luc H J Sondorp	33142750	Cancers (Basel)	IF

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

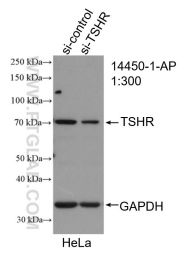
T: 4006900926

E: Proteintech-CN@ptglab.com

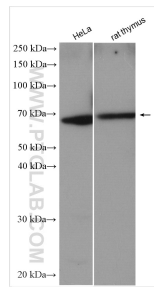
W: ptgcn.com

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Selected Validation Data



WB result of TSHR antibody (14450-1-AP; 1:300; incubated at room temperature for 1.5 hours) with sh-Control and sh-TSHR transfected HeLa cells.



HeLa cells were subjected to SDS PAGE followed by western blot with 14450-1-AP (TSHR antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.