

For Research Use Only

# TSHR Polyclonal antibody

Catalog Number: 14450-1-AP

Featured Product

17 Publications



## Basic Information

### Catalog Number:

14450-1-AP

### Size:

750 ug/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:

87kDa, 62-70kDa, 28-30kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, zebrafish

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB:** TT cells, HeLa cells, mouse ovary tissue, mouse thymus tissue

**IHC:** human thyroid cancer 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:

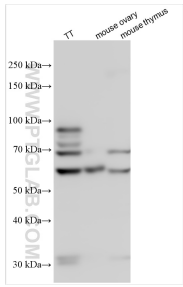
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

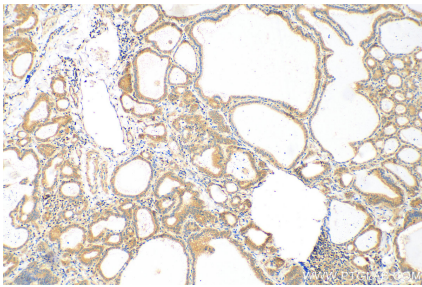
W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 14450-1-AP (TSHR antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using 14450-1-AP (TSHR antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).