

For Research Use Only

TSHR Polyclonal antibody

Catalog Number: 14450-1-AP

Featured Product

18 Publications



Basic Information

Catalog Number:

14450-1-AP

Size:

150ul, Concentration: 750 ug/ml by Nanodrop;

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, ICC-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, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

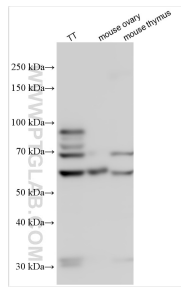
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

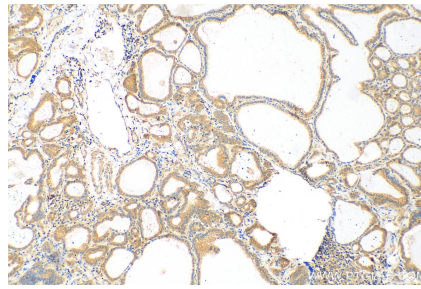
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W: ptglab.com

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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).