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Anti-TSH Receptor / TSHR Antibody (N-Terminus)

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS17997

Product Information

Application	IHC-P
Primary Accession	P16473
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	86844
Concentration (mg/ml)	1 mg/ml

Additional Information

Gene ID	7253
Alias Symbol	TSHR
Other Names	TSHR, CHNG1, HTSHR-I, LGR3, Thyrotrophin receptor, TSH-R, TSH receptor, Thyrotropin receptor
Target/Specificity	Human TSH Receptor. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Reconstitution & Storage	Immunoaffinity purified
Precautions	Anti-TSH Receptor / TSHR Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TSHR
Synonyms	LGR3
Function	Receptor for the thyroid-stimulating hormone (TSH) or thyrotropin (PubMed:11847099, PubMed:12045258). Also acts as a receptor for the heterodimeric glycoprotein hormone (GPHA2:GPHB5) or thyrostimulin (PubMed:12045258). TSHR is coupled to G(s) proteins and mediates the activation of adenylate cyclase (PubMed:11847099, PubMed:35940205, PubMed:35940204). This leads to the generation of cyclic adenosine monophosphate (cAMP), which in turn activates protein kinase A (PKA). PKA subsequently phosphorylates downstream targets involved in thyroid hormone biosynthesis and secretion, including thyroid peroxidase (TPO) and the sodium/iodide symporter (NIS) (PubMed:27638195). Additionally, plays a central role in controlling thyroid cell metabolism (By similarity).

Cellular Location	Cell membrane; Multi-pass membrane protein. Basolateral cell membrane; Multi-pass membrane protein
Tissue Location	Expressed in thyroide cells (at protein level) (PubMed:11847099). Expressed in the thyroid (PubMed:2610690)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.