

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

Rabbit Anti Human Polyclonal Antibody  
Catalog # ALS17997

## Product Information

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<b>Application</b>	IHC-P
<b>Primary Accession</b>	<a href="#">P16473</a>
<b>Predicted</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	86844
<b>Concentration (mg/ml)</b>	1 mg/ml

## Additional Information

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

## Protein Information

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<b>Name</b>	TSHR
<b>Synonyms</b>	LGR3
<b>Function</b>	Receptor for the thyroid-stimulating hormone (TSH) or thyrotropin (PubMed: <a href="#">11847099</a> , PubMed: <a href="#">12045258</a> ). Also acts as a receptor for the heterodimeric glycoprotein hormone (GPHA2:GPHB5) or thyrostimulin (PubMed: <a href="#">12045258</a> ). TSHR is coupled to G(s) proteins and mediates the activation of adenylate cyclase (PubMed: <a href="#">11847099</a> , PubMed: <a href="#">35940205</a> , PubMed: <a href="#">35940204</a> ). 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: <a href="#">27638195</a> ). Additionally, plays a central role in controlling thyroid cell metabolism (By similarity).

<b>Cellular Location</b>	Cell membrane; Multi-pass membrane protein. Basolateral cell membrane; Multi-pass membrane protein
<b>Tissue Location</b>	Expressed in thyroid 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'.