

Product datasheet for **SM1348P**

TSH Receptor (TSHR) Mouse Monoclonal Antibody [Clone ID: 4C1]

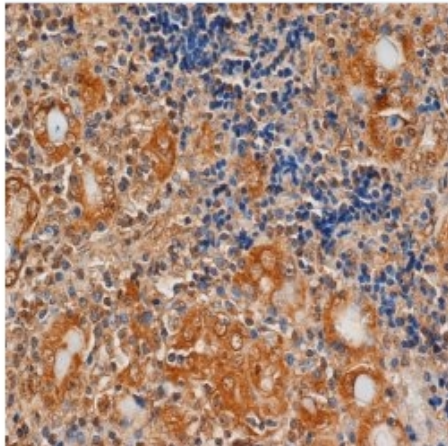
Product data:

Product Type:	Primary Antibodies
Clone Name:	4C1
Applications:	FC, IHC, IP, WB
Recommended Dilution:	Flow Cytometry: Use 10 µl of 1/100-1/1,000 diluted antibody to label 10e6 cells in 100 µl. Immunohistochemistry on Frozen Sections. Immunohistochemistry on Paraffin Sections: 1/1,000-1/2,000 (does not require protein digestion pre-treatment nor antigen retrieval using heat treatment prior to staining of paraffin sections). <i>Histology positive control:</i> Thyroid gland. Immunoprecipitation. Western blotting: 1/1,000. According to customer information, this antibody has been used successfully on a peptide microarray (2). Not Suitable for ELISA.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	External domain of Human TSH receptor
Specificity:	Recognizes the Human thyroid stimulating hormone (TSH) receptor binding to an extracellular domain. The epitope has been mapped to aa 379-384 (2).
Formulation:	PBS containing 0.09% Sodium Azide as preservative State: Purified State: Liquid purified IgG fraction
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G
Conjugation:	Unconjugated



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Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	thyroid stimulating hormone receptor
Database Link:	Entrez Gene 7253 Human P16473
Background:	<p>Thyrotropin Receptor, a Glycoprotein Hormone Receptor, plays a central role in controlling thyroid cell metabolism. The TSH receptor can interact with both TSH and autoantibodies against the TSH receptor (thyroid-stimulating immunoglobulins, TSI). Mutations in the receptor are the cause for hyperthyroidism such as gestational hyperthyroidism (hypersensitivity to chorionic gonadotropin) and Grave's disease (autoimmune hyperthyroidism). Multiple isoforms of the thyrotropin receptor are produced by alternative splicing.</p> <p>The thyrotropin receptor has been reported in adipose, adrenal, brain, eye, heart, kidney, skin, thymus, and thyroid. ESTs have been isolated from brain, placenta, and thyroid libraries.</p>
Synonyms:	Thyroid-stimulating hormone receptor, TSH-receptor, TSH-R, LGR3

Product images:

TSHR antibody staining of Paraffin Embedded Human thyroid.