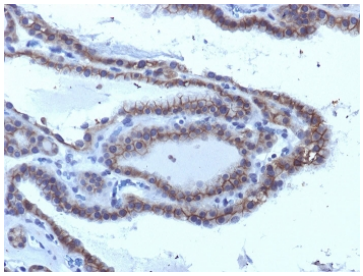
TSHR Antibody (alpha chain) [clone SPM223] (V3444)

Catalog No.	Formulation	Size
V3444-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3444-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3444SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	SPM223
Purity	Protein G affinity chromatography
Buffer	1X PBS, pH 7.4
UniProt	P16473
Localization	Cytoplasmic, cell surface
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This TSHR antibody is available for research use only.



IHC testing of FFPE human thyroid carcinoma with TSHR antibody (clone SPM223). Required HIER: boil tissue sections in 10mM Tris with 1mM EDTA, pH 9, or 10mM citrate buffer, pH 6, for 10-20 min followed by cooling at RT for 20 min.

Description

Thyroid-stimulating hormone (TSH, also known as thyrotropin) is a glycoprotein involved in the control of thyroid structure and metabolism, which stimulates the release of the thyroid hormones. TSH is regulated by thyroid hormone (T3) and various retinoid compounds. TSH binds to the thyroid-stimulating hormone receptor (TSHR), which is cleaved into two subunits, A and B, and plays a major role in regulating thyroid function. The third cytoplasmic loop of TSHR has been identified as critical for its role in regulating inositol phosphate and cAMP formation. In Graves disease, an autoimmune disorder, TSHR is activated by autoantibodies, which may be stimulated by the cleavage of the A and B subunits.

Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the TSHR antibody to be titered up or down for optimal performance.

Immunogen

Recombinant human TSH Receptor alpha chain protein was used as the immunogen for this TSHR antibody.

Storage

Store the TSHR antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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