

Mouse TSH-Receptor Monoclonal Antibody | anti-TSHR antibody

TSH-Receptor, B-Chain (Thyroid Marker)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA214547	Mouse	Human. Others not known.	Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay

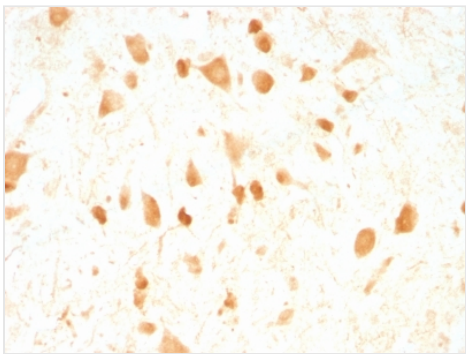
PRODUCT SYNONYMS

TSH-Receptor; Monoclonal Antibody; B-Chain (Thyroid Marker); CHNG1; hTSHRI; LGR3; Thyroid-stimulating hormone receptor; Thyrotropin receptor; Thyrotropin receptor I; TSHR; anti-TSHR antibody

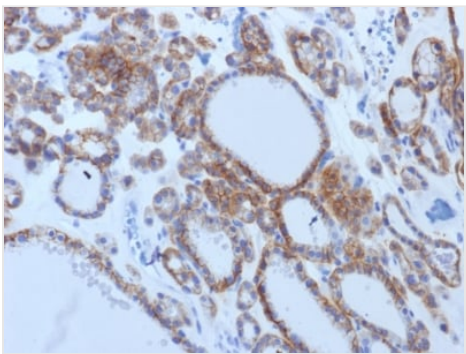
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human. Others not known.
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	SPM222
Specificity	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.
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	764
Applicable Applications for anti-TSHR antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Immunogen	Recombinant human TSHR, B-Chain protein
Cellular Localization	Cell Surface & Cytoplasmic
Hu-chromosome Location	14q31
Positive Control	293T Cells. Thyroid gland
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded Rat Cerebellum stained with Pgp9.5 Monoclonal Antibody (UCHL1/775).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Thyroid Carcinoma stained with TSHRB Monoclonal Antibody (SPM222).

ADDITIONAL INFORMATION

References	Tanaka, K., et al. 1999. Subunit structure of thyrotrophin receptors expressed on the cell surface. J. Biol. Chem. 274: 33979-33984.
------------	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	64085121
NCBI GeneID	7253
NCBI Accession #	NP_000360.2
NCBI GenBank Nucleotide #	NM_000369.2
UniProt Accession #	P16473; Q16503; Q8TB90; Q96GT6; Q9P1V4; Q9ULA3; Q9UPH3; A0PJU7; F5GYU5; G3V2A9
Molecular Weight	42kDa
NCBI Official Full Name	thyrotropin receptor isoform 1
NCBI Official Synonym Full Names	thyroid stimulating hormone receptor
NCBI Official Symbol	TSHR
NCBI Official Synonym Symbols	LGR3; CHNG1; hTSHR-I
NCBI Protein Information	thyrotropin receptor
UniProt Protein Name	Thyrotropin receptor
UniProt Gene Name	TSHR
UniProt Synonym Gene Names	LGR3; TSH-R

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/tsh-receptor-antibody-clone-spm222-immunohistochemistry-immunofluorescence-flow-cytometry-elisa/214547>