

Mouse anti-Human Thyroid Stimulating Hormone, beta (TSH beta) Monoclonal Antibody | anti-TSHB antibody

Thyroid Stimulating Hormone, beta (TSH beta) (Pituitary Marker)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA215239	Mouse	Human	Immunohistochemistry

PRODUCT SYNONYMS

Thyroid Stimulating Hormone; beta (TSH beta); Monoclonal Antibody; beta (TSH beta) (Pituitary Marker); CHNG4; Thyroid stimulating hormone beta subunit; Thyroid stimulating hormone; beta precursor; Thyrotropin beta subunit; TSHB; anti-TSHB antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	TSHb/1317
Specificity	The four human glycoprotein hormones chorionic gonadotropin (CG), luteinizing hormone (LH) follicle stimulating hormone (FSH), and thyroid stimulating hormone (TSH) are dimers consisting of alpha and beta subunits that are associated non-covalently. The alpha subunits of these hormones are identical, however, their beta chains are unique and confer biological specificity. TSH is synthesized and secreted by thyrotrope cells in the anterior pituitary gland which regulates the endocrine function of the thyroid gland. TSH stimulates the thyroid gland to secrete the hormones thyroxine (T4) and triiodothyronine (T3). TSH production is controlled by a Thyrotropin-Releasing Hormone (TRH), which is manufactured in the hypothalamus and transported to the pituitary gland, where it increases TSH production and release. Somatostatin is also produced by the hypothalamus and has an opposite effect on the pituitary production of TSH, decreasing or inhibiting its release. TSH is a useful marker in classification of pituitary tumors and the study of pituitary disease.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA at 1.0mg/ml
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 at 1.0mg/ml.
Sequence Length	138
Applicable Applications for anti-TSHB antibody	IHC (Immunohistochemistry)
Positive Control	Normal pituitary or its tumor.
Immunogen	Recombinant human TSH beta fragment
Cellular Localization	Cytoplasmic
Hu-chromosome Location	1p13
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



SDS-PAGE
SDS-PAGE Analysis Purified TSH beta Mouse Monoclonal Antibody (TSHb/1317).
Confirmation of Purity and Integrity of Antibody.



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Pituitary stained with TSH beta Mouse Monoclonal Antibody (TSHb/1317).

ADDITIONAL INFORMATION

References	Immunohistochemical studies of human FSH producing pituitary adenomas. Osamura, R.Y., Watanabe, K. Virchows Archiv. A, Pathological anatomy and histopathology. (1988)
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NCBI AND UNIPROT INFORMATION

NCBI GI #	115430099
NCBI GeneID	7252
NCBI Accession #	NP_000540.2
NCBI GenBank Nucleotide #	NP_000540.2
UniProt Accession #	P01222
Molecular Weight	16kDa
NCBI Official Full Name	thyrotropin subunit beta isoform 1
NCBI Official Synonym Full Names	thyroid stimulating hormone subunit beta
NCBI Official Symbol	TSHB
NCBI Official Synonym Symbols	TSH-B; TSH-BETA
NCBI Protein Information	thyrotropin subunit beta
UniProt Protein Name	Thyrotropin subunit beta
UniProt Gene Name	TSHB
UniProt Synonym Gene Names	TSH-B; TSH-beta
UniProt Entry Name	TSHB_HUMAN

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.