

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

Mouse Monoclonal Antibody [Clone TSHb/1317]

Catalog No	Format	Size
7252-MSM1-P1ABX	Purified Ab WITHOUT BSA at 1.0mg/ml	100 ug
7252-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
7252-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug

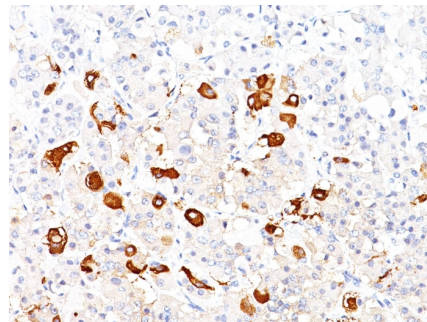
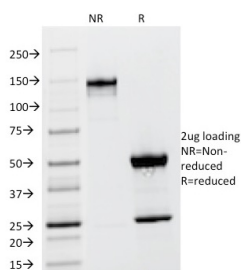
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

### Product Details

<b>Clone</b>	TSHb/1317
<b>Gene Name</b>	TSHB
<b>Immunogen</b>	Recombinant human TSH beta fragment
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG1 / Kappa
<b>Mol. Weight of Antigen</b>	16kDa
<b>Cellular Localization</b>	Secreted
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	Normal pituitary or pituitary tumor.

\*Optimal dilution for a specific application should be determined.

### Product Images for Thyroid Stimulating Hormone, beta (TSH beta) (Pituitary Marker) Antibody



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

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

### **Specificity & Comments**

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.

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### **Limitations and Warranty**

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

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### **Supplied As**

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.

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### **Storage and Stability**

Antibody with azide - store at 2 to 8 °C. Antibody is stable for 24 months. ,Non-hazardous. No MSDS required.

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### **Research Areas**

Cardiovascular, Signal Transduction

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