



Datasheet for ABIN6940810
anti-TSHB antibody



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2 Images

Overview

Quantity:	100 µg
Target:	TSHB
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TSHB antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Immunostaining (Ist), Staining Methods (StM)

Product Details

Immunogen:	Recombinant human TSH beta fragment
Clone:	TSHb-1317
Isotype:	IgG1 kappa
Purification:	Purified by Protein A/G

Target Details

Target:	TSHB
Alternative Name:	TSHB (TSHB Products)
Background:	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

Target Details

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.

Molecular Weight: 16kDa

Gene ID: 7252

UniProt: [P01222](#)

Pathways: [Thyroid Hormone Synthesis](#), [Peptide Hormone Metabolism](#)

Application Details

Application Notes: Positive Control: Normal pituitary or its tumor.
Known Application: Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 µg/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

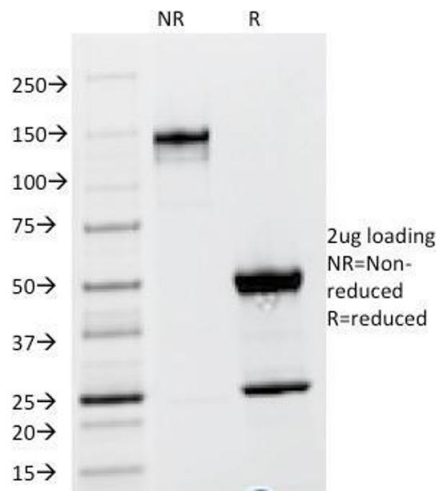
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C

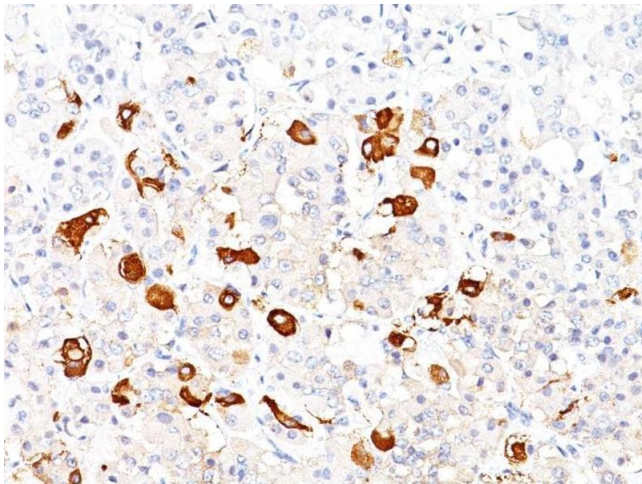
Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date: 24 months



SDS-PAGE

Image 1. SDS-PAGE Analysis Purified TSH beta Mouse Monoclonal Antibody (TSHb/1317). Confirmation of Purity and Integrity of Antibody.



Immunohistochemistry

Image 2. Formalin-fixed, paraffin-embedded human Pituitary stained with TSH beta Mouse Monoclonal Antibody (TSHb/1317).