

36-3315: Anti-Thyroid Stimulating Hormone, beta (TSH beta) (Pituitary Marker) Monoclonal Antibody(Clone: TSHb/1317)

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| Clonality : | Monoclonal |
| Clone Name : | TSHb/1317 |
| Application : | IHC |
| Reactivity : | Human |
| Gene : | TSHB |
| Gene ID : | 7252 |
| Uniprot ID : | P01222 |
| Alternative Name : | CHNG4; Thyroid stimulating hormone beta subunit; Thyroid stimulating hormone, beta precursor; Thyrotropin beta subunit; TSHB |
| Isotype : | Mouse IgG1, kappa |
| Immunogen Information : | Recombinant human TSH beta fragment |

Description

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.

Product Info

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| Amount : | 20 µg / 100 µg |
| Content : | 200 µg/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. |
| Storage condition : | Antibody with azide - store at 2 to 8°C. Antibody is stable for 24 months. Non-hazardous. |

Application Note

Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes 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),

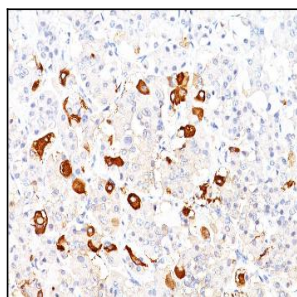


Fig. 1: Formalin-fixed, paraffin-embedded human Pituitary stained with TSH beta Mouse Monoclonal Antibody (TSHb/1317).

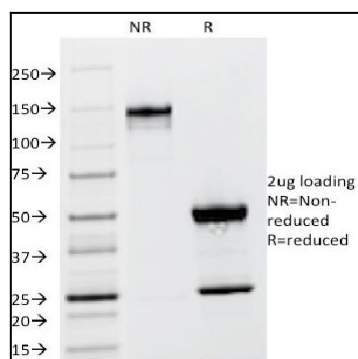


Fig. 2: SDS-PAGE Analysis Purified TSH beta Mouse Monoclonal Antibody (TSHb/1317). Confirmation of Purity and Integrity of Antibody.