

Mouse anti TSH Monoclonal Antibody

Alternative Name(s): thyroid stimulating hormone

Order Information

- Description: TSH
- Catalogue: 600-570
- Lot: See label
- Size: 100ug/200ul
- Host: Mouse
- Clone: M1A10
- Application: IHC, WB, ELISA
- Reactivity: Hu

ANTIGEN PREPARATION

A recombinant protein from the full length of human TSH protein.

BACKGROUND

The four human glycoprotein hormones chorionic gonadotropin (CG), luteinizing hormone (LH), follicle stimulating hormone (FSH), and thyroid stimulating hormone (TSH) are dimmers consisting of alpha and beta subunits that are associated noncovalently. The alpha subunits of these hormones are identical, however, their beta chains are unique and confer biological specificity. Thyroid stimulating hormone, also known as thyrotropin, is secreted from cells in the anterior pituitary called thyrotrophs, finds its receptors on epithelial cells in the thyroid gland, and stimulates that gland to synthesize and release thyroid hormones. TSH is a glycoprotein hormone composed of two subunits which are non covalently bound to one another. The alpha subunit of TSH is also present in two other pituitary glycoprotein hormones, follicle stimulating hormone and luteinizing hormone, and, in primates, in the placental hormone chorionic gonadotropin. Each of these hormones also has a unique beta subunit, which provides receptor specificity. In other words, TSH is composed of alpha subunit bound to the TSH beta subunit, and TSH associates only with its own receptor. Free alpha and beta subunits have essentially no biological activity.

PURIFICATION

The mouse IgG is purified by Protein A-Affinity Chromatography according to Isotyping

FORMULATION

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

SPECIFICITY

This antibody recognizes human TSH protein.

STORAGE

The antibodies are stable for 24 months from date of receipt when stored at -200C to -700C. The antibodies can be stored at 20C-80C for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

APPLICATIONS/SUGGESTED WORKING DILUTIONS*

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 28.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

FOR RESEARCH USE ONLY.

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*Optimal dilutions should be determined by researchers for the specific applications.





Western Blot: The full length of human TSH protein was immunoblotted by with Mouse anti TSH (Cat#600-570) antibody at 1:500. An immunoreactive band is observed at molecular weight~28 kDa.



Immunohistochemistry: Human anterior pituitary gland tissue (FFPE) stained with Mouse anti TSH antibody, (Cat# 600-570) at 1:200 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

REFERENCES