Mouse Anti-Human TSH Monoclonal Antibody Datasheet

Product Name: mAb anti-human TSH Clone No.: TSH-1

Catalogue No.: MO-M40046B Quantity: 0.5 mg/vial

Mouse anti-Human Thyroid Stimulating **Description:**

Hormone (TSH) monoclonal antibody.

Purification: Protein G affinity purified

Primary antibody-capture antibody in **Product Type:**

matched antibody pair

Target Protein: Human TSH

Recombinant human TSH Immunogen:

Fusion Not known

Myeloma:

Specificity Human TSH α subunit

Species Human, others not tested

Reactivity:

Host / Isotype: Mouse, IgG1 Kappa

Formulation: Lyophilized from a solution in 0.01M

PBS, pH 7.2

Reconstitution: Double distilled water is recommended

to adjust the final concentration to

1.00mg/mL.

Store at -20°C Storage:

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Research Area: Hormone, metabolism

Thyroid stimulating hormone is secreted **Background:**

> by pituitary gland in response to the stimulation of Thyrotropin Releasing

Hormone (TRH) produced by

hypothalamus. TSH binds to the TSH receptors on the surface of the follicular cells in thyroid and stimulates the

production of thyroid hormones (T4 and T3). TSH, T3 and T4 play an important

role in normal growth, brain

development in young children, and regulate the metabolism in adults. TSH secretion is increased when T3 and T4 are insufficient. Elevated TSH, but low T3 and T4 levels indicate that thyroid cannot produce thyroid hormones at a normal rate and the condition is called hypothyroidism. If T3 and T4 levels are high when TSH is at a low level, it indicates that thyroid is producing abnormally large amount thyroid

hypermetabolic symptoms.

TSH has an α subunit that is identical to the one in other glycoprotein hormones

hormones, and the condition is called

hyperthyroidism which is manifested by

such as LH, FSH and HCG.

Applications: ELISA: This antibody can be used as

> capture antibody in sandwich ELISA for human TSH detection in combination with HRP conjugated TSHβ antibody [Cat No: MO-M40046T] that is derived from anti-TSH clone TSH2 [Cat No: MO-M40046A]. The suggested coating

concentration is 4µg/mL.

References: If research is published using this

> product, please inform Anogen in order to cite the reference on this datasheet. Anogen will provide one unit of product

> > S7.5 (02)

in the same category as gratitude.

This product is for LABORATORY RESEARCH USE and further manufacture ONLY, and cannot be administrated to human and animals for use in diagnostic and therapeutic procedures.

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