ImmunoBioScience Corp. (IBSC) *DATA SHEET*

Thyroid Stimulating Hormone (TSH) Mouse MAb anti-human

**Catalog number:** MM-1020-01 0.5 ml Concentrated IgG1 0.2 mg/ml

MM-1020-02 1.0 ml Concentrated IgG1 0.2 mg/ml

MM-1020-04 7.0 ml Prediluted for IHC IgG1 4µg/ml

**Buffer:** Protein A purified antibodies are supplied with 1% BSA in PBS with 0.05% azide, pH 7.4. The Prediluted antibody is supplied in our Universal antibody dilution buffer (AR-6526) green in color.

**Description**:Thyroid-stimulating hormone (also known as TSH or thyrotropin) is a hormone synthesized and secreted by thyrotrope cells in the anterior pituitary gland which regulates the endocrine function of the thyroid gland. TSH is a glycoprotein and consists of two subunits, the *alpha* and the *beta* subunit. The (*alpha*) subunit is identical to that of human chorionic gonadotropin (HCG), luteinizing hormone (LH), follicle-stimulating hormone (FSH). The β (*beta*) subunit is unique to TSH, and therefore determines its function. This antibody labels thyrotrophic cells of the pituitary and may be useful for research in the classification of pituitary adenocarcinomas and differential identification of primary and metastatic tumors of the pituitary.

**Intended Use**: Immunohistochemistry (IHC) and Immunocytchemistry (ICC)

**Storage**: 2-8°C

**Clone**: TSH 220 **Isotype:** IgG1/κ

**Epitope:** not known

**Molecular weight of antigen:** Beta (β) 14 kDa; alpha+Beta (α+β) 28 kDa

**Immunogen:** Human TSH, beta subunit.

**Species reactivity:** Human, others not tested.

**Cellular Localization:** Cytoplasmic staining of anterior pituitary cells.

**Recommended positive control:** Human Anterior pituitary

**Application:** IHC, ICC (frozen or formalin–fixed paraffin-embedded (FFPE) tissue sections, cell smears) Dilute conc. antibodies 1:50-1:100 using streptavidin-Biotin system or polymer system. Prediluted antibody is used directly without dilution. For FFPE tissue sections, the intensity of staining can be enhanced by antigen retriever (boiling tissue in 10 mM citrate, pH 6.0 for 15-20 mins, followed by cooling at RT for 20 mins).

The optimum dilution should be determined by the individual lab.

**General References**

1. .Jirkalova, V et.al. Eur. J. Clin. Chem. Clin. Biochem. 34: 823-827, 1996.

**Limitation and warranty:** Our warranty is limited to the actual price paid for the product. We are not liable for any property damage, personnel injury, time, effort or economic loss due to our product.

**MSDS:** This product contains 0.05 % sodium azide as a preservative, appropriate care should be taken in handling. National Institute of Occupational Safety and Health has warning that sodium azide can react with lead, copper, brass or solder in the plumbing system and forms hydrazoic acid in acidic condition. Discard with copious amount of water. Avoid skin and eye contact with all laboratory products. Use appropriate lab. gear, lab coat , gloves and safety glasses. Do not ingest any lab. products. This product is not approved for administration in human or animals.

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