

**Mouse Anti-TSH (Thyroid Stimulating Hormone) [TSH220]: MC0199**

**Intended Use:** For Research Use Only

**Description:** TSH is a member of the glycoprotein hormone family, constituting a subset of the cystine-knot growth factor superfamily. TSH is produced by the pituitary thyrotrophs and released into circulation in a pulsatile manner. It stimulates thyroid functions using a specific membrane TSH receptor (TSHR) that belongs to the superfamily of G protein-coupled receptors (GPCRs). TSH beta is the beta subunit of thyroid stimulating hormone. This TSH antibody labels normal and neoplastic thyrotropic cells. It may be useful in classification of pituitary tumors.

**Specifications**

Clone: TSH220  
Source: Mouse  
Isotype: IgG1k  
Reactivity: Human  
Localization: Cytoplasm  
Formulation: Antibody in PBS pH7.4, containing BSA and  $\leq 0.09\%$  sodium azide (NaN<sub>3</sub>)  
Storage: Store at 2° - 8°C  
Applications: IHC, ICC  
Package:

Description	Catalog No.	Size
TSH (Thyroid Stimulating Hormone) Concentrated	MC0199	1 ml

**IHC Procedure**

Positive Control Tissue: Pituitary & pituitary adenoma  
Concentrated Dilution: 25-100  
Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
Incubation Time and Temp: 30-60 minutes @ RT  
Detection: Refer to the detection system manual  
\* Result should be confirmed by an established diagnostic procedure.

**References:**

1. Isolated double adrenocorticotrophic hormone-secreting pituitary adenomas: A case report and review of the literature. Pu J, et al. *Oncol Lett* 12:585-590, 2016.
2. Proteomic analysis of the maternal protein restriction rat model for schizophrenia: identification of translational changes in hormonal signaling pathways and glutamate neurotransmission. Guest PC, et al. *Proteomics* 12:3580-9, 2012.
3. Localization of thyrotropin receptor and thyroglobulin in the bovine corpus luteum. Mutinati M, et al. *Anim Reprod Sci* 118:1-6, 2010.
4. Expression of IP-10/CXCL10 and MIG/CXCL9 in the thyroid and increased levels of IP-10/CXCL10 in the serum of patients with recent-onset Graves' disease. Romagnani P, et al. *Am J Pathol* 161:195-206, 2002.

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