**For non-clinical research use only.**

Human TSH Antibody, mAb, Mouse

### PRODUCT INFORMATION

<table>
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<th>Cat.No</th>
<th>Clone</th>
<th>Ig Subclass</th>
<th>Size</th>
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<td>1H4G9</td>
<td>IgG1, k</td>
<td>1 mg</td>
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<tr>
<td>A01710</td>
<td>2D10F6</td>
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**Description**

Thyrotropin-stimulating hormone (TSH) is a noncovalently linked glycoprotein heterodimer and is part of a family of pituitary hormones containing a common alpha subunit and a unique beta subunit that confers specificity. Free alpha and beta subunits have essentially no biological activity. TSH is secreted from cells in the anterior pituitary and it is indispensable for the control of thyroid structure and metabolism.

**GenScript Human TSH Antibody, mAb, Mouse** is produced from the hybridoma resulting from fusion of Sp2/0 myeloma and lymphocytes obtained from mouse immunized with purified TSH from human pituitary.

**Species Reactivity**

TSH monoclonal antibodies (1H4G9, 2D10F6, 2B9H4, 26A7D2, 28F7B8 and 3B12D11) recognize TSH. They have no cross-reactivity with human HCG.

**Product Buffer**

PBS, pH 7.4, containing 0.02% sodium azide.

**Storage**

**GenScript Human TSH Antibody, mAb, Mouse** should be stored at -20°C or below until use. Avoid repeated freezing and thawing cycles.

**Applications**

These antibodies are perfect choice for in vitro diagnostic assay development. And they are prepared for non-clinical research use only. The recommended pairs are based on our laboratory results.

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**Example**

**Host:** Mouse  
**Immunogen:** purified TSH from human pituitary  
**Purification:** Protein A affinity column  
**Conjugation:** Unconjugated  
**Version:** 03/04/2011
Cross-reactivity of TSH monoclonal antibodies by Indirect ELISA:

**General conditions:**
1. Microplate was incubated with human TSH, or human HCG respectively, followed by 3 washing cycles.
2. Incubation with mouse anti-TSH antibody followed by 3 washing cycles.
3. Incubation with goat anti-mouse IgG conjugated to peroxidase, followed by 3 washing cycles.

![Cross-reactivity of TSH monoclonal antibodies by Indirect ELISA](image)

Antibody pairs analysis of TSH monoclonal antibodies by Sandwich ELISA:

**General conditions:**
1. Microplate was incubated with a capture antibody against TSH, followed by 3 washing cycles.
2. Incubation with TSH followed by 3 washing cycles.
3. Incubation with peroxidase conjugated detection antibody against TSH, followed by 3 washing cycles.

![Antibody pairs analysis of TSH monoclonal antibodies by Sandwich ELISA](image)

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