

## Datasheet: 8921-5007

<b>Description:</b>	RABBIT ANTI DOG THYROID STIMULATING HORMONE
<b>Specificity:</b>	THYROID STIMULATING HORMONE
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	50 µl

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA	▪			
Western Blotting			▪	

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using the appropriate negative/positive controls.

<b>Target Species</b>	Dog
<b>Product Form</b>	Ig fraction - lyophilised
<b>Reconstitution</b>	Reconstitute with sterile distilled water. For long term storage the addition of a preservative is recommended.
<b>Preparation</b>	Ig fraction prepared by ammonium sulphate precipitation
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	None present
<b>Immunogen</b>	Purified canine TSH.

### External Database Links

#### UniProt:

[P54828](#)

[Related reagents](#)

[Q9XSW8](#)

[Related reagents](#)

#### Entrez Gene:

[403973](#) TSHB [Related reagents](#)

[403483](#) CGA [Related reagents](#)

---

**Specificity**

**Rabbit anti Dog thyroid stimulating hormone polyclonal antibody** was raised against highly purified intact canine thyroid stimulating hormone (TSH) and is specific for canine TSH. Rabbit anti Dog thyroid stimulating hormone exhibits less than 0.1% cross reactivity with the other major canine glycoprotein hormones; growth hormone (GH), luteinizing hormone (LH) and follicle stimulating hormone (FSH) or prolactin using an iodinated hormone tracer assay. This strongly indicates that the anti thyroid stimulating hormone antibody is primarily reactive with the TSH $\beta$  chain although it may also have reactivity with  $\beta$  chain conformational epitopes dependent on the presence of the common  $\alpha$  chain shared with the other glycoprotein hormones.

TSH, also known as thyrotropin is synthesized in, and secreted from [thyrotropes](#) within the anterior pituitary gland, under the influence of secreted thyrotropin releasing hormone from the hypothalamus. TSH is composed of, as are the other major glycoprotein hormones, a common  $\alpha$  chain non-covalently linked to a unique  $\beta$  chain responsible for conferring the structural and biological identity of the individual hormone. TSH binds to the TSH receptor (TSHR) in the thyroid gland. TSHR has also been detected in other cell types including adipocytes, neuronal cells and gastric mucosa.

Defects in the TSH $\beta$  subunit can lead to hypothyroidism, either through the lack of secreted hormone or secretion of TSH lacking full biological activity ([Szkudlinski et al. 2002](#)).

---

**Further Reading**

1. Szkudlinski, M.W. et al. (2002) Thyroid-stimulating hormone and thyroid-stimulating hormone receptor structure-function relationships. [Physiol Rev. 82: 473-502.](#)

---

**Storage**

Prior to reconstitution store at +4°C.

After reconstitution store at -20°C.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

---

**Shelf Life**

12 months from date of reconstitution.

---

**Health And Safety Information**

Material Safety Datasheet documentation #10162 available at:  
10162: <https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf>

---

**Regulatory**

For research purposes only

---

## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)

Sheep Anti Rabbit IgG (STAR36...) [DyLight@488](#), [DyLight@549](#), [DyLight@649](#),  
[DyLight@680](#), [DyLight@800](#)

'M318947:180719'

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

**Printed on 27 Jul 2018**

---

© 2018 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)