

Datasheet: 8330-0009

**BATCH NUMBER 172616**

<b>Description:</b>	RAT ANTI HUMAN SOMATOSTATIN
<b>Specificity:</b>	SOMATOSTATIN
<b>Format:</b>	S/N
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	YC7
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	0.2 ml

## 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			▪	
Immunofluorescence			▪	

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>	Human
<b>Species Cross Reactivity</b>	<p>Reacts with: Rat, Guinea Pig, Pig, Mouse, Zebrafish</p> <p><b>N.B.</b> Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.</p>
<b>Product Form</b>	Tissue Culture Supernatant - liquid
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )

**Immunogen** Somatostatin conjugated to thyroglobulin.

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**External Database**

**Links**

**UniProt:**

[P61278](#) [Related reagents](#)

**Entrez Gene:**

[6750](#) SST [Related reagents](#)

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**RRID**

AB\_2195908

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**Fusion Partners**

Spleen cells from rats immunized with somatostatin conjugated to thyroglobulin were fused with a rat myeloma cell line.

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**Specificity**

**Rat anti Human somatostatin antibody, clone YC7** recognizes somatostatin, a hormone involved in endocrine system regulation through interactions with pituitary growth hormone, thyroid stimulating hormone, and a number of hormones of the gastrointestinal tract. Somatostatin has active 14 amino acid and 28 amino acid forms, produced by alternate cleavage of the gene product.

This antibody does not cross react with enkephalins, other endorphins, substance P, or CGRP. It partially cross reacts with somatostatin fragments.

The epitope recognized by this antibody lies within the 1-14 amino acid sequence of cyclic somatostatin.

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**References**

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2. Hens, J. *et al.* (2001) Morphological and neurochemical identification of enteric neurones with mucosal projections in the human small intestine. [J Neurochem. 76: 464-71.](#)
3. Kaleczyc, J. *et al.* (2002) Distribution, immunohistochemical characteristics and nerve pathways of primary sensory neurons supplying the porcine vas deferens. [Cell Tissue Res. 310: 9-17.](#)
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6. Pidsudko, Z. *et al.* (2004) Distribution and chemical coding of neurons in intramural ganglia of the porcine urinary bladder trigone. [Folia Histochem Cytobiol. 42: 3-11.](#)
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10. Podlasz, P. *et al.* (2016) Galanin regulates blood glucose level in the zebrafish: a morphological and functional study. [Histochem Cell Biol. 145 \(1\): 105-17.](#)
11. Ismail, H.I. & Ali, A.M. (2015) Immunohistochemical Studies on The Endocrine Cells in The Thymus of The One-Humped-Camel (*Camelus dromedarius*) [J Camel Pract Res. 22 \(2\): 251.](#)
12. Zacharko-Siembida, A. *et al.* (2017) An Immunohistochemical Study of Cocaine- and Amphetamine-Regulated Transcript (Cart) Expression in the Pterygopalatine Ganglion of the Pig. [Acta Veterinaria. 67 \(3\): 397-408.](#)
13. Palus, K. *et al.* (2018) Neurochemical characteristics of calbindin-like immunoreactive coeliac-cranial mesenteric ganglion complex (CCMG) neurons supplying the pre-pyloric region of the porcine stomach. [Tissue Cell. 50: 8-14.](#)
14. Książarczyk, M.M. & Arciszewski, M.B. (2021) Immunohistochemical study on the expressions of neuropeptides in the superficial and deep gland of the third eyelid of pigs. [Anat Histol Embryol. 50 \(3\): 579-87.](#)
15. Jana, B. & Całka, J. (2020) Endometritis Changes the Neurochemical Characteristics of the Caudal Mesenteric Ganglion Neurons Supplying the Gilt Uterus. [Animals \(Basel\). 10 \(5\): 891.](#)

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**Storage** This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10053 available at: <https://www.bio-rad-antibodies.com/SDS/8330-0009>

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**Regulatory** For research purposes only

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	<a href="#">DyLight@800</a>
Rabbit Anti Rat IgG (STAR17...)	<a href="#">FITC</a>
Goat Anti Rat IgG (STAR73...)	<a href="#">RPE</a>
Rabbit Anti Rat IgG (STAR21...)	<a href="#">HRP</a>
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	<a href="#">DyLight@550</a> , <a href="#">DyLight@650</a> , <a href="#">DyLight@800</a>
Goat Anti Rat IgG (STAR131...)	<a href="#">Alk. Phos.</a> , <a href="#">Biotin</a>
Goat Anti Rat IgG (STAR72...)	<a href="#">HRP</a>
Goat Anti Rat IgG (STAR69...)	<a href="#">FITC</a>

### Recommended Negative Controls

[RAT IgG2b NEGATIVE CONTROL \(MCA6006GA\)](#)

**Product inquiries: [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)**

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)  
'M438063:250321'

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