Datasheet: 8330-0009

Description:	RAT ANTI HUMAN SOMATOSTATIN
Specificity:	SOMATOSTATIN
Format:	S/N
Product Type:	Monoclonal Antibody
Clone:	YC7
Isotype:	IgG2b
Quantity:	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.

	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.

Target Species

Human

Species Cross Reactivity

Reacts with: Rat, Guinea Pig, Pig, Mouse, Zebrafish
N.B. Antibody reactivity and working conditions may vary between species.

Product Form

Tissue Culture Supernatant - liquid

Preservative Stabilisers

0.05% Thiomersal

Immunogen

Somatostatin conjugated to thyroglobulin.

External Database Links

UniProt:
P61278 Related reagents

Entrez Gene:
6750 SST Related reagents

Fusion Partners

Spleen cells from rats immunised with somatostatin conjugated to thyroglobulin were fused with a

rat myeloma cell line.

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

References

1. 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.
2. Van Nassauw, L. *et al.* (2002) Neurochemical identification of enteric neurons expressing P2X(3) receptors in the guinea-pig ileum. Histochem Cell Biol. 118 (3): 193-203.
3. Geuens, E. *et al*. (2003) A globin in the nucleus! J Biol Chem. 278: 30417-20.
4. 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.
5. Pidsudko, Z. (2014) Immunohistochemical characteristics and distribution of sensory dorsal root Ganglia neurons supplying the urinary bladder in the male pig. J Mol Neurosci. 52 (1): 71-81.
6. 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.
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8. Rychlik, A. *et al.* (2002) Diarrhea-Induced Changes in Chemical Phenotypes of Enteric Structures in the Pig are not Sufficient to Discriminate between the Viral and Bacterial Etiology of the Disease. Bull Vet Inst Pulawy 46, 187-96.
9. 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.
10. Kaleczyc, J. *et al.* (2007) The distribution and chemical coding of intramural neurons supplying the porcine stomach - the study on normal pigs and on animals suffering from swine dysentery. Anat Histol Embryol. 36 (3): 186-93.
11. Pidsudko, Z. *et al.* (2008) Distribution and chemical coding of intramural neurons in the porcine ileum during proliferative enteropathy. J Comp Pathol. 138 (1): 23-31.
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) [Epub ahead of print].
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 and Cell. 50: 8-14.

Further Reading

1. Milstein, C. & Cuello, A.C. (1983) Hybrid hybridomas and their use in immunohistochemistry. Nature. 305: 537-40.

Storage

Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10522 available at: 10522: https://www.bio-rad-antibodies.com/uploads/MSDS/10522.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	DyLight®800
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight®649, DyLight®800
Goat Anti Rat IgG (STAR131...)	Alk. Phos., Biotin
Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR72...)	HRP

Recommended Negative Controls

RAT IgG2b NEGATIVE CONTROL (MCA6006GA)

North & South America Tel: +1 800 265 7376
Fax: +1 919 878 3751
Email: 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

Europe Tel: +49 (0) 89 8090 95 21
Fax: +49 (0) 89 8090 95 50
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