

Datasheet: 8250-0495

Description:	RAT ANTI SEROTONIN
Specificity:	SEROTONIN
Other names:	5-HT, 5-HYDROXYTRYPTAMINE
Format:	S/N
Product Type:	Monoclonal Antibody
Clone:	YC5/45
Isotype:	IgG2
Quantity:	0.1 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
Immunohistology - Frozen (1)	▪			
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.

(1)**Formaldehyde fixation is recommended.**

Target Species	Broad
Species Cross Reactivity	Reacts with: Human, Rat, Goldfish, Cat, Chicken, Marine file snake, Helix aspersa, Hirudo medicinalis N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Tissue Culture Supernatant - liquid
Preservative Stabilisers	0.05% Thiomersal
Immunogen	Serotonin conjugated to bovine serum albumin.
Fusion Partners	Spleen cells from immunised COB wistar rats were fused with cells of the Y3-Ag-1.2.3 rat myeloma cell line.
Specificity	Rat anti serotonin antibody, clone YC5/45 recognizes serotonin and does not cross react with 5-hydroxyindolacetic acid, GABA, noradrenaline, 5-hydroxytryptophan, carnosine or melatonin. Serotonin, also known as 5-hydroxytryptamine or 5-HT is a biochemical messenger and neurotransmitter synthesized from L-tryptophan. Serotonin has a range of functions, including

regulation of gastric motility, and may be related to some psychiatric disorders including schizophrenia and depression. Serotonin is widely distributed in the central and peripheral nervous system, and also in some non-neural tissues such as platelets.

Serotonin appears widely conserved and Rat anti serotonin antibody, clone YC5/45 has been used successfully to demonstrate serotonin immunoreactivity using immunohistochemistry in many diverse groups including primates ([Vanoli et al. 2013](#)), rodents ([Hosoda et al. 1984](#)), prototherian mammals, avians and reptiles ([Adamson and Campbell 1988](#)), teleosts ([Takeda et al. 2014](#)) through to invertebrates including hirudinids ([Masuda-Nakagawa et al. 1990](#)) and gastropods ([Osborne and Dockray 1982](#)).

References

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6. Cuello, A.C. *et al.* (1982) Immunocytochemistry with internally labeled monoclonal antibodies. [Proc Natl Acad Sci U S A. 79: 665-9.](#)
7. Gil-Loyzaaga, P. *et al.* (1997) Serotonergic innervation of the organ of Corti of the cat cochlea. [Neuroreport. 8: 3519-22.](#)
8. Osborne, N.N. (1982) Uptake, localization and release of serotonin in the chick retina. [J Physiol. 331: 469-79.](#)
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10. Dainese, E. *et al.* (2013) Linear and micronodular neuroendocrine cell hyperplasia in an ovarian mucinous cystadenoma. [Pathol Res Pract. 209: 670-3.](#)
11. Solcia, E. *et al.* (1990) Gastric argyrophil carcinoidosis in patients with Zollinger-Ellison syndrome due to type 1 multiple endocrine neoplasia. A newly recognized association. [Am J Surg Pathol. 14 \(6\): 503-13.](#)

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®549 , DyLight®649 , DyLight®800
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin
Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR72...)	HRP

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