

Datasheet: 8250-0495 BATCH NUMBER 157264

RAT ANTI SEROTONIN		
SEROTONIN		
5-HT, 5-HYDROXYTRYPTAMINE		
S/N		
Monoclonal Antibody		
YC5/45		
lgG2		
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 <u>www.bio-rad-antibodies.com/protocols</u> .						
		Yes	No	Not Determined	Suggested Dilution		
	Immunohistology - Frozen (1)	•					
	Immunofluorescence						
Where this product has not been tested for use in a particular technique this doe							
	necessarily exclude its use in such procedures. Suggested working dilutions are g a guide only. It is recommended that the user titrates the product for use in their ov 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. 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. 						
Product Form	Tissue Culture Supernata	ant - liquio	ł				
Preservative Stabilisers	0.05% Thiomersal						

Serotonin conjugated to bovine serum albumin.
AB_2122542
Spleen cells from immunised COB wistar rats were fused with cells of the Y3-Ag-1.2.3 rat myeloma cell line.
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 <i>et al.</i> 2013), rodents (Hosoda <i>et al.</i> 1984), prototherian mammals, avians and reptiles (Adamson and Campbell 1988), teleosts (Takeda <i>et al.</i> 2014) through to invertebrates including hirudinids (Masuda-Nakagawa <i>et al.</i> 1990) and gastropods (Osborne and Dockray 1982).
 Consolazione, A. <i>et al.</i> (1981) Immunocytochemical detection of serotonin with monoclonal antibodies. J Histochem Cytochem. 29: 1425-30. Milstein, C. <i>et al.</i> (1983) The discrepancy between the cross-reactivity of a monoclonal antibody to serotonin and its immunohistochemical specificity. Mol Immunol. 20 (1): <u>113-23.</u> Suárez-Quian, C.A. (1987) The distribution of four lysosomal integral membrane proteins (LIMPs) in rat basophilic leukemia cells. <u>Tissue Cell. 19: 495-504.</u> La Rosa, S. <i>et al.</i> (2011) Histologic characterization and improved prognostic evaluation of 209 gastric neuroendocrine neoplasms. <u>Hum Pathol. 42: 1373-84.</u> Takeda, A. <i>et al.</i> (2015) Axonal regeneration through the fibrous scar in lesioned goldfish spinal cord. <u>Neuroscience. 284: 134-52.</u> Cuello, A.C. <i>et al.</i> (1982) Immunocytochemistry with internally labeled monoclonal antibodies. <u>Proc Natl Acad Sci U S A. 79: 665-9.</u> Gil-Loyzaga, P. <i>et al.</i> (1997) Serotonergic innervation of the organ of Corti of the cat cochlea. <u>Neuroreport. 8: 3519-22.</u> Osborne, N.N. (1982) Uptake, localization and release of serotonin in the chick retina. J <u>Physiol. 331: 469-79.</u> Vanoli, A. <i>et al.</i> (2013) Histologic changes in type A chronic atrophic gastritis indicating increased risk of neuroendocrine tumor development: the predictive role of dysplastic and severely hyperplastic enterochromaffin-like cell lesions. <u>Hum Pathol. 44: 1827-37.</u> Dainese, E. <i>et al.</i> (2013) Linear and micronodular neuroendocrine cell hyperplasia in an ovarian mucinous cystadenoma. <u>Pathol Res Pract. 209: 670-3.</u> Solcia, E. <i>et al.</i> (1990) Gastric argyrophil carcinoidosis in patients with Zollinger-Ellison

	syndrome due to type 1 multiple endocrine neoplasia. A newly <u>J Surg Pathol. 14 (6): 503-13.</u>	recognized association. <u>Am</u>
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 freezi	ng and thawing as this may
	denature the antibody. Should this product contain a precipitate microcentrifugation before use.	e we recommend
Guarantee	12 months from date of despatch	
Health And Safety	Material Safety Datasheet documentation #10522 available at:	
Information	https://www.bio-rad-antibodies.com/SDS/8250-0495	
	10522	
Regulatory	For research purposes only	

Related Products

Recommended Secondary Antibodies

Rabbit A	nti Rat IgG (STAR16)		DyLight®800			
Rabbit A	Rabbit Anti Rat IgG (STAR17) FITC					
Goat Ant	i Rat IgG (STAR73)		<u>RPE</u>			
Rabbit Anti Rat IgG (STAR21) HRP						
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71) <u>DyLight®550</u> , <u>DyLight®650</u> , <u>DyLight®800</u>						
Goat Ant	i Rat IgG (STAR131)		Alk. Phos., Biot	tin		
Goat Anti Rat IgG (STAR72) HRP						
Goat Ant	i Rat IgG (STAR69)		<u>FITC</u>			
North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50	
America	Email: antibody_sales_us@bio-ra	d.com	Email: antibody_sales_uk@bio-	rad.com	Email: antibody_sales_de@bio-rad.com	

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M363489:200528'

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