

Datasheet: MCA191F BATCH NUMBER 060815

Description:	MOUSE ANTI RAT IGA HEAVY CHAIN:FITC
Specificity:	IgA HEAVY CHAIN
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	MARA-1
lsotype:	lgG1
Quantity:	0.5 mg

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-</u>					
	rad-antibodies.com/protocols.					
		Yes	No	Not Determined	Suggested Dilution	
	Flow Cytometry	-			5ug/ml	
	Immunohistology - Frozer	۱		•		
	Immunohistology - Paraffi	n		•		
	Where this antibody ha	s not been t	ested for	use in a particular teo	chnique this does not	
	necessarily exclude its	use in such	procedur	es. Suggested workin	ng dilutions are given as	
	a guide only. It is recon	nmended that	at the use	r titrates the antibody	for use in their own	
	system using appropria	ite negative/	positive c	ontrols.		
Target Species	Rat					
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid					
Max Ex/Em	Fluorophore	Excitation N	lax (nm)	Emission Max (nm)		
	FITC	490		525		
Preparation	Purified IgG prepared b	y affinity ch	romatogra	aphy from tissue cultu	ire supernatant	
Buffer Solution	Phosphate buffered saline					
Preservative	0.1% Sodium Azide					
Stabilisers	50% Glycerol					
Approx. Protein	IgG concentration 1 mg	ı/ml				

Concentrations

Immunogen	Purified IR1060 IgA rat myeloma protein.
RRID	AB_322198
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line.
Specificity	Mouse anti Rat IgA Heavy Chain antibody, clone MARA-1 recognizes the alpha heavy chain of rat immunoglobulin. Mouse anti Rat IgA Heavy Chain antibody, clone MARA-1 shows no cross-reactivity with other rat immunoglobulin classes.
Flow Cytometry	Use 50ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	 Bjersing, J.L. <i>et al.</i> (2002) Loss of ileal IgA+ plasma cells and of CD4+ lymphocytes in lieal Peyer's patches of vitamin A deficient rats. <u>Clin Exp Immunol. 130: 404-8</u>. Budeč, M. <i>et al.</i> (2007) Possible mechanism of acute effect of ethanol on intestinal IgA expression in rat. <u>Int Immunopharmacol. 7: 858-63</u>. Budeč, M. <i>et al.</i> (2009) Blockade of nitric oxide synthesis modulates rat immunoglobulin A. <u>Neuroimmunomodulation. 16: 155-61</u>. Hahn, A. <i>et al.</i> (2010) Mesenteric lymph nodes are not required for an intestinal immunoglobulin A response to oral cholera toxin. <u>Immunology. 129: 427-36</u>. Herias, M.V. <i>et al.</i> (1999) Immunomodulatory effects of Lactobacillus plantarum colonizing the intestine of gnotobiotic rats <u>Clin Exp Immunol. 116: 283-90</u>. Ito, H. <i>et al.</i> (2011) Degree of polymerization of inulin-type fructans differentially affects number of lactic acid bacteria, intestinal immune functions, and immunoglobulin A secretion in the rat cecum. J Agric Food Chem. <u>59</u> (10): 5771-8. Kushnir, N. <i>et al.</i> (1998) Dendritic cells and resting B cells form clusters in vitro and in vivo: T cell independence, partial LFA-1 dependence, and regulation by cross-linking surface molecules. J Immunol. <u>160: 1774-81</u>. Goodrich, M.E. and McGee, D.W. (1998) Regulation of mucosal B cell immunoglobulin secretion by intestinal epithelial cell-derived cytokines. <u>Cytokine. 10: 948-55</u>. Heel, K.A. <i>et al.</i> (1996) The effect of minimum luminal nutrition on mucosal cellularity and immunoglobulin secretion and lymphocyte phenotype in rat small intestine lamina propria. <u>Pediatr Res. 58: 164-9</u>. Penz-Cano FJ (2005) Neonatal immunoglobulin secretion and CD4+, CD8+, immunoglobulins (A, M, and G), and CD45RA cells in spleen and CD4+, CD8+, immunoglobulin (A, M, and G), and CD45RA cells in spleen and CD4+, immunoglobulin A, and CD45RA cells in colonic lamina propria of rats. <u>Nutr Res. 2009 Jul;29(7);48</u>

	secretion in the rat cecum. <u>J Agric Food Chem. 59: 5771-8.</u> 15. Hino, S. <i>et al.</i> (2020) Mucin-Derived O-Glycans Act as Endogenous Fiber and S Mucosal Immune Homeostasis via Short-Chain Fatty Acid Production in Rat Cecum <u>Nutr. 150 (10): 2656-65.</u>	
Storage	Store at +4°C or at -20°C if preferred.	
	This product should be stored undiluted.	
	Storage in frost-free freezers is not recommended. This product is photosensitive a should be protected from light.	nd
	Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.	S
Guarantee	12 months from date of despatch	
Health And Safety Information	Material Safety Datasheet documentation #10328 available at: https://www.bio-rad-antibodies.com/SDS/MCA191F 10328	
Regulatory	For research purposes only	

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:FITC (MCA1209F)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-rad.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 M365892:200529'

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