Datasheet: MCA1143EL BATCH NUMBER 164015

Description:	RAT ANTI MOUSE CD40:Low Endotoxin
Specificity:	CD40
Format:	Low Endotoxin
Product Type:	Monoclonal Antibody
Clone:	3/23
Isotype:	lgG2a
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-rad-antibodies.com/protocols</u> .				
		Yes	No	Not Determined	Suggested Dilution
	Flow Cytometry	-			1/50
	Immunohistology - Frozen	-			
	Immunohistology - Paraffin			-	
	ELISA	•			
	Immunoprecipitation			-	
	Western Blotting			-	
	Functional Assays	-			
	necessarily exclude its use in such procedures. Suggested working dilutions are a guide only. It is recommended that the user titrates the antibody for use in their system using appropriate negative/positive controls.				
Target Species	Mouse				
Product Form	Purified IgG - liquid				
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant				
Buffer Solution	Phosphate buffered saline				
Preservative Stabilisers	None present				

Carrier Free	Yes
Endotoxin Level	< 0.01 EU/ug
Approx. Protein Concentrations	IgG concentration 1 mg/ml
Immunogen	Extracellular Domain of Mouse CD40 and the Fc portion of Human IgG1.
External Database Links	UniProt: <u>P27512</u> <u>Related reagents</u> Entrez Gene: <u>21939</u> Cd40 <u>Related reagents</u>
Synonyms	Tnfrsf5
RRID	AB_324096
Fusion Partners	Spleen cells from immunised LOU/c rats were fused with cells of the Ag8 mouse myeloma cell line.
Specificity	Rat anti Mouse CD40 antibody, clone 3/23 recognizes the murine CD40 cell surface glycoprotein. It does not react with normal mouse Ig or with human IgG1 and will stain most mature mouse B cells. It does not cross react with mouse T cells. The specificity of Rat anti Mouse CD40 antibody, clone 3/23 was demonstrated by ELISA and flow cytometry using BHK cells transfected with mouse CD40. Rat anti Mouse CD40 antibody, clone 3/23 is a powerful activator of normal B cells especially in the presence of IL-4.
Flow Cytometry	Use 10µl of the suggested working dilution to label 10 ⁶ cells in 100µl
References	 Parry, S.L. <i>et al.</i> (1994) Plastic-immobilized anti-mu or anti-delta antibodies induce apoptosis in mature murine B lymphocytes. <u>Eur J Immunol. 24 (4): 974-9.</u> Hasbold, J. & Klaus, G.G. (1994) B cells from CBA/N mice do not proliferate following ligation of CD40. <u>Eur J Immunol. 24 (1): 152-7.</u> Salomon, B. <i>et al.</i> (1998) Three populations of mouse lymph node dendritic cells with different origins and dynamics. <u>J Immunol. 160: 708-17.</u> Yang, Y.F. <i>et al.</i> (2000) Requirement for IFN-gamma in IL-12 production induced by collaboration between v(alpha)14(+) NKT cells and antigen-presenting cells. <u>Int Immunol. 12: 1669-75.</u> Ogasawara, K. <i>et al.</i> (2002) Profiles of cell-to-cell interaction of Mycobacterium intracellulare-induced immunosuppressive macrophages with target T cells in terms of suppressor signal transmission. <u>Clin Exp Immunol. 129: 272-80.</u> Russo, S. <i>et al.</i> (2003) Platelet-activating factor mediates CD40-dependent angiogenesis and endothelial-smooth muscle cell interaction. <u>J Immunol. 171: 5489-97.</u> Mukhopadhyay, S. <i>et al.</i> (2004) Activation of murine macrophages by Neisseria

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	13. Malada-Edelstein, Y.F. <i>et al.</i> (2017) Regulatory role of cytos alpha in the induction of CD40 in microglia. <u>J Neuroinflammation</u>	· · · -
Storage	Store at -20°C only. This product should be stored undiluted Storage in frost-free freezers is not recommended. Avoid re thawing as this may denature the antibody. Should this pro precipitate we recommend microcentrifugation before use.	epeated freezing and duct contain a
Guarantee	12 months from date of despatch	
Health And Safety Information	Material Safety Datasheet documentation #10162 available at: https://www.bio-rad-antibodies.com/SDS/MCA1143EL 10162	
Regulatory	For research purposes only	

Related Products

Recommended Secondary Antibodies

Goat Anti Rat IgG (STAR69)	<u>FITC</u>			
Goat Anti Rat IgG (STAR73)	RPE			
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71) DyLight®550, DyLight®650, DyLight®800			
Rabbit Anti Rat IgG (STAR21)	HRP			
Rabbit Anti Rat IgG (STAR16)	DyLight®800			
Goat Anti Rat IgG (STAR131)	Alk. Phos., Biotin			
Rabbit Anti Rat IgG (STAR17)	<u>FITC</u>			
Goat Anti Rat IgG (STAR72)	HRP			
Recommended Negative Controls				

RAT IgG2a NEGATIVE CONTROL:Low Endotoxin (MCA1212EL)

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

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