Datasheet: MCA708T BATCH NUMBER 161149

Description:	MOUSE ANTI HUMAN CD103
Specificity:	CD103
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	2G5.1
lsotype:	lgG2a
Quantity:	25 µg

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 - 1/100		
	Immunohistology - Frozen (1)	•			1/50 - 1/100		
	Immunohistology - Paraffin		•				
	ELISA			•			
	Immunoprecipitation	-					
	Western Blotting			•			
	Immunofluorescence	-					
	necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls. (1)The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. Bio-Rad recommends the use of acetone fixation for frozen sections.						
Farget Species	Human						
Species Cross	Reacts with: Cynomolgus monkey, Rhesus Monkey						
Reactivity	N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or						

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Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from ascites
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	<0.1% Sodium Azide (NaN ₃) 0.5% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Human intestinal lymphocytes
External Database Links	UniProt: <u>P38570</u> <u>Related reagents</u> Entrez Gene: <u>3682</u> ITGAE <u>Related reagents</u>
RRID	AB_1100549
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the NS1 mouse myeloma cell line
Specificity	Mouse anti Human CD103 antibody, clone 2G5.1 recognizes the human CD103 cell surface antigen, also known as the alpha ^E integrin, HML-1 antigen, Mucosal lymphocyte 1 antigen or Integrin alpha-E. CD103 is a 1161 amino acid, ~130 kDa single pass type 1 transmembrane glycoprotein.
	Mouse anti Human CD103 antibody, clone 2G5.1 reacts with various subsets of human intra-epithelial lymphocytes:- 40% of lamina propria T-cells; 30% of mesenteric lymphoblasts and some lymphocytes from other mucosa. It recognises less than 0.1% bone marrow cells and less than 0.7% PBL.
Flow Cytometry	Use 10ul of the suggested working dilution to label 5 x 10^5 cells in 100ul.
Histology Positive Control Tissue	Intestine
References	 Cerf-Bensussan, N. <i>et al.</i> (1986) A monoclonal antibody specific for rat intestinal lymphocytes. J Immunol. 136 (1): 76-82. Cerf-Bensussan, N. <i>et al.</i> (1987) A monoclonal antibody (HML-1) defining a novel membrane molecule present on human intestinal lymphocytes. Eur J Immunol. 17 (9): 1279-85. Kutleša, S. <i>et al.</i> (2002) E-cadherin-mediated interactions of thymic epithelial cells with CD103+ thymocytes lead to enhanced thymocyte cell proliferation. J Cell Sci. 115 (Pt 23): 4505-15.

	4. Presicce P <i>et al.</i> (2012) Myeloid dendritic cells isolated from tissues of SIV-infected Rhesus macaques promote the induction of regulatory T cells. <u>AIDS. 26 (3): 263-73.</u>				
	5. Swan, Z.D. et al. (2016) Macrophage accumulation in gut mucosa differentiates AID				
	from chronic SIV infection in rhesus macaques. Eur J Immunol. 46 (2): 446-54.				
	6. Nugent, J.L. et al. (2021) A nonhuman primate model of vertical sleeve gastrectomy				
	facilitates mechanistic and translational research in human obesity. <u>iScience. 24 (12):</u> 103421.				
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.				
	Avoid repeated freezing and thawing as this may denature the antibody. Storage in				
	frost-free freezers is not recommended.				
Guarantee	12 months from date of despatch				
Health And Safety	Material Safety Datasheet documentation #10041 available at:				
Information	https://www.bio-rad-antibodies.com/SDS/MCA708T				
	10041				
Regulatory	For research purposes only				

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77)	HRP			
Rabbit Anti Mouse IgG (STAR12)	RPE			
Goat Anti Mouse IgG IgA IgM (STAR87) <u>Alk. Phos.</u> , <u>HRP</u>				
Goat Anti Mouse IgG (STAR76)	RPE			
Rabbit Anti Mouse IgG (STAR13)	HRP			
Goat Anti Mouse IgG (STAR70)	<u>FITC</u>			
Goat Anti Mouse IgG (H/L) (STAR117)	Alk. Phos., DyLight®488, DyLight®550,			
	DyLight®650, DyLight®680, DyLight®800,			
	FITC, HRP			
Rabbit Anti Mouse IgG (STAR9)	<u>FITC</u>			
Goat Anti Mouse IgG (Fc) (STAR120)	FITC, HRP			
Recommended Negative Controls				

MOUSE IgG2a NEGATIVE CONTROL (MCA929)

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 'M390027:210819'

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