Datasheet: MCA80GA BATCH NUMBER 156517

Description:	MOUSE ANTI HUMAN CD1a
Specificity:	CD1a
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	NA1/34-HLK
lsotype:	lgG2a
Quantity:	0.1 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 - 1/100	
	Immunohistology - Frozen					
	Immunohistology - Paraffin					
	ELISA			•		
	Immunoprecipitation					
	Western Blotting					
	Immunofluorescence					
	necessarily exclude its us a guide only. It is recomm system using appropriate	nended th	at the use		•	
Target Species	Human					
Species Cross Reactivity	Reacts with: Dog, Cynomolgus monkey 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	Purified IgG - liquid					
Preparation	Purified IgG prepared by	affinity ch	nromatogr	aphy on Protein A fror	m tissue culture	

	supernatant			
Buffer Solution	Phosphate buffered saline			
Preservative Stabilisers	0.09% Sodium Azide			
Carrier Free	Yes			
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml			
Immunogen	Human thymocytes			
External Database Links	UniProt: <u>P06126</u> <u>Related reagents</u> Entrez Gene:			
	909 CD1A <u>Related reagents</u>			
RRID	AB_324090			
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the NS1/1 Ag4.1 mouse myeloma cell line			
Specificity	Mouse anti Human CD1a antibody, clone NA1/34-HLK recognizes the human CD1a cell surface glycoprotein, a ~49 kDa single pass type 1 transmembrane glycoprotein containing a single Ig-like domain, expressed in association with beta 2 microglobulin. CD1a is expressed strongly by cortical thymocytes, and also by Langerhans cells and interdigitating cells. CD1a is involved in the presentation of lipids and glycolipids to NK cells (Sloma <i>et al.</i> 2008).			
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6. Liu, C.C. *et al* (2008) Transient downregulation of monocyte-derived dendritic-cell differentiation, function, and survival during tumoral progression and regression in an *in vivo* canine model of transmissible venereal tumor. <u>Cancer Immunol Immunother. 57:</u> <u>479-91.</u>

7. Sugiura K *et al.* (2010) Effect of IL-12 on canine dendritic cell maturation following differentiation induced by granulocyte-macrophage CSF and IL-4. <u>Vet Immunol Immunopathol. 137 (3-4): 322-6.</u>

8. Angel, C.E. *et al.* (2006) Distinctive localization of antigen-presenting cells in human lymph nodes. <u>Blood. 113: 1257-67.</u>

9. Bosco, M.C. *et al.* (2011) Hypoxia modulates the gene expression profile of immunoregulatory receptors in human mature dendritic cells: identification of TREM-1 as a novel hypoxic marker in vitro and *in vivo*. <u>Blood. 117: 2625-39.</u>

10. Buettner, M. *et al.* (2005) Inverse correlation of maturity and antibacterial activity in human dendritic cells. J Immunol. 174: 4203-9.

11. Cox, K. *et al.* (2005) Plasmacytoid dendritic cells (PDC) are the major DC subset innately producing cytokines in human lymph nodes. <u>J Leukoc Biol. 78: 1142-52.</u>

12. Mito, K. *et al.* (2010) IFN{gamma} markedly cooperates with intratumoral dendritic cell vaccine in dog tumor models. <u>Cancer Res. 70: 7093-101.</u>

13. Murray, S. *et al.* (2000) Diagnostic and therapeutic evaluation of an anti-Langerhans cell histiocytosis monoclonal antibody (NA1/34) in a new xenograft model. <u>J Invest</u> <u>Dermatol. 114: 127-34.</u>

14. Scheinecker, C. *et al.* (1998) Initiation of the autologous mixed lymphocyte reaction requires the expression of costimulatory molecules B7-1 and B7-2 on human peripheral blood dendritic cells. J Immunol. 161: 3966-73.

15. Wang, Y.S. *et al.* (2007) Characterization of canine monocyte-derived dendritic cells with phenotypic and functional differentiation. <u>Can J Vet Res. 71: 165-74.</u>

16. Elia, A.R. *et al.* (2008) Human dendritic cells differentiated in hypoxia down-modulate antigen uptake and change their chemokine expression profile. <u>J Leukoc Biol. 84:</u> <u>1472-82.</u>

17. Fanales-Belasio, E. *et al.* (2009) HIV-1 Tat addresses dendritic cells to induce a predominant Th1-type adaptive immune response that appears prevalent in the asymptomatic stage of infection. <u>J Immunol. 182: 2888-97.</u>

18. Kaldensjö, T. *et al.* (2011) Detection of intraepithelial and stromal Langerin and CCR5 positive cells in the human endometrium: potential targets for HIV infection. <u>PLoS One. 6:</u> <u>e21344.</u>

19. Angel, C.E. *et al.* (2007) CD14+ antigen-presenting cells in human dermis are less mature than their CD1a+ counterparts. <u>Int Immunol. 19: 1271-9.</u>

20. Angel, C.E. *et al.* (2007) Comprehensive analysis of MHC-II expression in healthy human skin. <u>Immunol Cell Biol. 85: 363-9.</u>

21. Baharom F. *et al.* (2016) Dendritic Cells and Monocytes with Distinct Inflammatory Responses Reside in Lung Mucosa of Healthy Humans <u>The Journal of Immunology. May</u> <u>2 [Epub ahead of print]</u>

22. Bonnefont-Rebeix, C. *et al.* (2016) Characterization of a novel canine T-cell line established from a spontaneously occurring aggressive T-cell lymphoma with large granular cell morphology. <u>Immunobiology. 221 (1): 12-22.</u>

23. Zegarska, B. *et al.* (2017) Changes of Langerhans cells during skin ageing. <u>Postepy</u> <u>Dermatol Alergol. 34 (3): 260-7.</u>

	24. Tomić, S. <i>et al.</i> (2018) Functionalization-dependent effects of tolerogenic mechanisms of human dendritic cells. Int J Nanome		
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. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.		
Guarantee	12 months from date of despatch		
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA80GA 10040		
Regulatory	For research purposes only		

Related Products

Recommended Secondary Antibodies

Rabbit Ar	nti Mouse IgG (STAR12)	<u>RPE</u>				
Goat Anti Mouse IgG IgA IgM (STAR87) <u>HRP</u>						
Goat Anti Mouse IgG (STAR76)			RPE			
Rabbit Ar	nti Mouse IgG (STAR13)	HRP				
Goat Ant	Mouse IgG (STAR70)	<u>FITC</u>				
Goat Anti Mouse IgG (H/L) (STAR117) <u>Alk. Phos.</u> , <u>DyLight®488</u> , <u>DyLight®550</u> ,						
		DyLig	<u>ht®650, DyLight®680, I</u>	DyLight®800	<u>),</u>	
		<u>FITC</u> ,	, <u>HRP</u>			
Rabbit Ar	nti Mouse IgG (STAR9)	<u>FITC</u>				
Goat Anti Mouse IgG (STAR77)		HRP				
Goat Ant	Mouse IgG (Fc) (STAR120)	<u>FITC</u> ,	, <u>HRP</u>			
Recomn	nended Negative Controls					
MOUSE Ic	G2a NEGATIVE CONTROL (MCAS	<u>)29)</u>				
North & South	Tel: +1 800 265 7376 Worldwi	de T	Fel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21	
America	Fax: +1 919 878 3751		ax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50	
	Email: antibody_sales_us@bio-rad.com	E	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 'M374980:201210'

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