Datasheet: MCA2257GA BATCH NUMBER 149798

Description:	MOUSE ANTI HUMAN CD226
Specificity:	CD226
Other names:	DNAM-1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	DX11
Isotype:	lgG1
Quantity:	0.1 mg

Product Details

Stabilisers

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	-			1/25 - 1/100
	Immunohistology - Frozen			•	
	Immunohistology - Paraffin				
	ELISA				
	Immunoprecipitation	-			
	Western Blotting			•	
	Where this antibody has	not been	tested for	r use in a particular teo	chnique this does not
	necessarily exclude its u			·	•
	•		•		•
	a guide only. It is recomr	nended tr	hat the use	er titrates the antibody	for use in their own
	system using appropriate	e negative	e/positive	controls.	
arget Species	Human				
Product Form	Purified IgG - liquid				
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant			n tissue culture	
Buffer Solution	Phosphate buffered salin	ie			
Preservative	0.09% Sodium Azide				

Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Human cytotoxic T lymphocyte clone
External Database Links	UniProt: <u>Q15762</u> <u>Related reagents</u> Entrez Gene: <u>10666</u> CD226 <u>Related reagents</u>
Synonyms	DNAM1
RRID	AB_324796
Fusion Partners	Spleen cells from immunized BALB/c mouse were fused with cells of the Sp2/0 myeloma cell line
Specificity	 Mouse anti Human CD226 antibody, clone DX11 recognizes human CD226, a ~65 kDa glycoprotein, also known as DNAM1 (DNAX accessory molecule-1). CD226 is broadly expressed on T-cells, NK cells, platelets, monocytes and a subset of B cells. CD226 is also expressed by a subset of CD3 positive thymocytes. Mouse anti Human CD226 antibody, clone DX11 is reported to inhibit T- and NK cell mediated cytotoxicity against tumor cell targets and to block TNF alpha and IFN gamma secretion by alloantigen-specific T-cells (Kojima <i>et al.</i> 2003).
Flow Cytometry	Use 10ul of the suggested working dilution to label 1 x 10^6 cells in 100ul.
References	 Shibuya, A. <i>et al.</i> (1996) DNAM-1, a novel adhesion molecule involved in the cytolytic function of T lymphocytes. Immunity. 4 (6): 573-81. Shibuya, A. <i>et al.</i> (1998) Protein kinase C is involved in the regulation of both signaling and adhesion mediated by DNAX accessory molecule-1 receptor. J Immunol. 161 (4): 1671-6. Kojima, H. <i>et al.</i> (2003) CD226 mediates platelet and megakaryocytic cell adhesion to vascular endothelial cells. J Biol Chem. 278 (38): 36748-53. Manes, T.D. and Pober, J.S. (2011) Identification of Endothelial Cell Junctional Proteins and Lymphocyte Receptors Involved in Transendothelial Migration of Human Effector Memory CD4+ T Cells. J Immunol. 186: 1763-8. Ardolino, M. <i>et al.</i> (2009) ATM-ATR-dependent up-regulation of DNAM-1 and NKG2D ligands on multiple myeloma cells by therapeutic agents results in enhanced NK-cell susceptibility and is associated with a senescent phenotype. <u>Blood. 113: 3503-11.</u>

	 Matusali, G. <i>et al.</i> (2012) The Human Immunodeficiency Virus Type 1 Nef and Vpu Proteins Downregulate the Natural Killer Cell-Activating Ligand PVR. <u>J Virol. 86:</u> <u>4496-504.</u> Fionda, C. <i>et al.</i> (2015) Nitric oxide donors increase PVR/CD155 DNAM-1 ligand expression in multiple myeloma cells: role of DNA damage response activation. <u>BMC</u> <u>Cancer. 15 (1): 17.</u> Molfetta, R. <i>et al.</i> (2019) The Ubiquitin-proteasome pathway regulates Nectin2/CD112 expression and impairs NK cell recognition and killing. <u>Eur J Immunol. 49 (6): 873-83.</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. Avoid repeated freezing and thawin 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/MCA2257GA 10040			
Regulatory	For research purposes only			

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12)	RPE			
Goat Anti Mouse IgG IgA IgM (STAR87) <u>HRP</u>				
Goat Anti Mouse IgG (STAR76)	RPE			
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 (STAR77)	HRP			
Goat Anti Mouse IgG (Fc) (STAR120)	FITC, HRP			
Rabbit Anti Mouse IgG (STAR13)	HRP			
Recommended Negative Controls				

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

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-rac	l.com	Email: antibody_sales_uk@bio-rac	d.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 'M366464:200529'

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