

Datasheet: MCA2257SBV790 BATCH NUMBER 64592858

Description:	MOUSE ANTI HUMAN CD226:StarBright Violet 790			
Specificity:	CD226			
Other names:	DNAM-1			
Format:	StarBright Violet 790			
Product Type:	Monoclonal Antibody			
Clone:	DX11			
lsotype:	lgG1			
Quantity:	100 TESTS/0.5ml			

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	•		Neat			
	necessarily exclude its	s use in such procedu mmended that the us	er titrates the product f	g dilutions are given as			
Target Species	Human						
Product Form	Purified IgG conjugated to StarBright Violet 790 - liquid						
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)				
	StarBright Violet 790	402	782				
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant						
Buffer Solution	Phosphate buffered saline						
Preservative Stabilisers	0.09% Sodium Azide (1% Bovine Serum Alb 0.1% Pluronic F68 0.1% PEG 3350						

0.05% Tween 20

Immunogen	Human cytotoxic T lymphocyte clone
External Database Links	UniProt: Q15762 Related reagents
	Entrez Gene: <u>10666</u> CD226 <u>Related reagents</u>
Synonyms	DNAM1
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 (<u>Kojima <i>et al.</i> 2003</u>).
Flow Cytometry	Use 5µl of the suggested working dilution to label 10 ⁶ cells in 100µl. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.
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. Blood. 113: 3503-11. Fionda, C. <i>et al.</i> (2009) Heat shock protein-90 inhibitors increase MHC class I-related chain A and B ligand expression on multiple myeloma cells and their ability to trigger NK cell degranulation. J Immunol. 183 (7): 4385-94. Matusali, G. <i>et al.</i> (2012) The Human Immunodeficiency Virus Type 1 Nef and Vpu

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	expression in multiple myeloma cells: role of DNA damage response activation. BMC
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	10. Molfetta, R. <i>et al.</i> (2019) The Ubiquitin-proteasome pathway regulates Nectin2/CD112
	expression and impairs NK cell recognition and killing. Eur J Immunol. 49 (6): 873-83.
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	extracellular vesicle-associated MICA: Dual role in cancer immunosurveillance. J Extracell
	Vesicles. 11 (1): e12176.
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	13. Zitti, B. <i>et al.</i> (2017) Innate immune activating ligand SUMOylation affects tumor cell
	recognition by NK cells. <u>Sci Rep. 7 (1): 10445.</u>
	14. Mekhloufi, A. <i>et al.</i> (2020) Bone Marrow Stromal Cell-Derived IL-8 Upregulates PVR
	Expression on Multiple Myeloma Cells via NF-kB Transcription Factor. <u>Cancers (Basel)</u> .
	12 (2): 440.
Storage	Store at +4°C. DO NOT FREEZE.
	This product should be stored undiluted.
Guarantee	12 months from date of despatch
Acknowledgements	This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts
Health And Safety	Material Safety Datasheet documentation #20471 available at:
Information	
mormation	https://www.bio-rad-antibodies.com/SDS/MCA2257SBV790
mormation	-
Regulatory	https://www.bio-rad-antibodies.com/SDS/MCA2257SBV790

Related Products

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

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@bic	-rad.com	Email: antibody_sales_uk@bio-ra	ad.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 'M429784:240429'

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