

Datasheet: MCA2257SBV440

BATCH NUMBER 64575924

Description:	MOUSE ANTI HUMAN CD226:StarBright Violet 440
Specificity:	CD226
Other names:	DNAM-1
Format:	StarBright Violet 440
Product Type:	Monoclonal Antibody
Clone:	DX11
Isotype:	IgG1
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 www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species Human

Product Form Purified IgG conjugated to StarBright Violet 440 - liquid

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	StarBright Violet 440	383	436

Preparation Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

Buffer Solution Phosphate buffered saline

Preservative 0.09% Sodium Azide (NaN₃)
Stabilisers 1% Bovine Serum Albumin
 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:

[10666](#) CD226 [Related reagents](#)

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 ([Kojima et al. 2003](#)).

Flow Cytometry Use 5µl of the suggested working dilution to label 10⁶ cells in 100µl. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.

References

1. Shibuya, A. *et al.* (1996) DNAM-1, a novel adhesion molecule involved in the cytolytic function of T lymphocytes. [Immunity. 4 \(6\): 573-81.](#)
2. Shibuya, A. *et al.* (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.](#)
3. Kojima, H. *et al.* (2003) CD226 mediates platelet and megakaryocytic cell adhesion to vascular endothelial cells. [J Biol Chem. 278 \(38\): 36748-53.](#)
4. 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.](#)
5. Ardolino, M. *et al.* (2011) DNAM-1 ligand expression on Ag-stimulated T lymphocytes is mediated by ROS-dependent activation of DNA-damage response: relevance for NK-T cell interaction. [Blood. 117: 4778-86.](#)
6. Soriani, A. *et al.* (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.](#)
7. Fionda, C. *et al.* (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.](#)
8. Matusali, G. *et al.* (2012) The Human Immunodeficiency Virus Type 1 Nef and Vpu

Proteins Downregulate the Natural Killer Cell-Activating Ligand PVR. [J Virol. 86: 4496-504.](#)

9. Fionda, C. *et al.* (2015) Nitric oxide donors increase PVR/CD155 DNAM-1 ligand expression in multiple myeloma cells: role of DNA damage response activation. [BMC Cancer. 15 \(1\): 17.](#)

10. Molfetta, R. *et al.* (2019) The Ubiquitin-proteasome pathway regulates Nectin2/CD112 expression and impairs NK cell recognition and killing. [Eur J Immunol. 49 \(6\): 873-83.](#)

11. Vulpis, E. *et al.* (2022) Impact on NK cell functions of acute versus chronic exposure to extracellular vesicle-associated MICA: Dual role in cancer immunosurveillance. [J Extracell Vesicles. 11 \(1\): e12176.](#)

12. Molfetta, R. *et al.* (2020) CD155: A Multi-Functional Molecule in Tumor Progression. [Int J Mol Sci. 21 \(3\): 922.](#)

13. Zitti, B. *et al.* (2017) Innate immune activating ligand SUMOylation affects tumor cell recognition by NK cells. [Sci Rep. 7 \(1\): 10445.](#)

14. Mekhloufi, A. *et al.* (2020) Bone Marrow Stromal Cell-Derived IL-8 Upregulates PVR Expression on Multiple Myeloma Cells via NF-κB Transcription Factor. [Cancers \(Basel\). 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 Information	Material Safety Datasheet documentation #20471 available at: https://www.bio-rad-antibodies.com/SDS/MCA2257SBV440
Regulatory	For research purposes only

Related Products

Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

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

'M426501:240123'

Printed on 07 May 2026