

## Datasheet: MCA2257PE

<b>Description:</b>	MOUSE ANTI HUMAN CD226:RPE
<b>Specificity:</b>	CD226
<b>Other names:</b>	DNAM-1
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	DX11
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	100 TESTS

## 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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	■			Neat

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Human		
<b>Product Form</b>	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized		
<b>Reconstitution</b>	Reconstitute with 1.0 ml distilled water		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	RPE 488nm laser	496	578
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.09% Sodium Azide		
<b>Stabilisers</b>	1.0% Bovine Serum Albumin		
	5% Sucrose		
<b>Immunogen</b>	Human cytotoxic T lymphocyte clone		
<b>External Database Links</b>	<b>UniProt:</b>		
	<a href="https://www.uniprot.org/entry/Q15762">Q15762</a>	<a href="#">Related reagents</a>	

**Entrez Gene:**

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

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<b>Synonyms</b>	DNAM1
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<b>Fusion Partners</b>	Spleen cells from immunized BALB/c mouse were fused with cells of the Sp2/0 myeloma cell line
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<b>Specificity</b>	<p><b>Mouse anti Human CD226 antibody, clone DX11</b> 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.</p> <p>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 (<a href="#">Kojima et al. 2003</a>).</p>
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<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 1 x 10 <sup>6</sup> cells in 100ul.
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<b>References</b>	<ol style="list-style-type: none"><li>1. Shibuya, A. <i>et al.</i> (1996) DNAM-1, a novel adhesion molecule involved in the cytolytic function of T lymphocytes. <a href="#">Immunity. 4 (6): 573-81.</a></li><li>2. 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. <a href="#">J Immunol. 161 (4): 1671-6.</a></li><li>3. Kojima, H. <i>et al.</i> (2003) CD226 mediates platelet and megakaryocytic cell adhesion to vascular endothelial cells. <a href="#">J Biol Chem. 278 (38): 36748-53.</a></li><li>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. <a href="#">J Immunol. 186: 1763-8.</a></li><li>5. Ardolino, M. <i>et al.</i> (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. <a href="#">Blood. 117: 4778-86.</a></li><li>6. Soriani, A. <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. <a href="#">Blood. 113: 3503-11.</a></li><li>7. 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. <a href="#">J Virol. 86: 4496-504.</a></li><li>8. 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. <a href="#">BMC Cancer. 15 (1): 17.</a></li></ol>
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<b>Storage</b>	Store at +4°C.
	DO NOT FREEZE
	This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

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<b>Shelf Life</b>	12 months from date of reconstitution.
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10075 available at: 10075: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf</a>
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:RPE \(MCA928PE\)](#)

### Recommended Useful Reagents

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

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

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