

Brilliant Violet 711™ anti-human CD226 (DNAM-1) Antibody

Catalog# / Size	338333 / 25 tests 338334 / 100 tests
Clone	11A8
Regulatory Status	RUO
Other Names	DNAM-1, PTA1, TLISA1
Isotype	Mouse IgG1, κ
Description	DNAM-1 (CD226) is a ~65 kD glycoprotein expressed on cell surface of T cells, NK cells, monocytes/macrophages, platelets and megakaryocytes and a subset of B cells and a member of the immunoglobulin (Ig)-superfamily containing 2 Ig-like domains of the V-set. The ligands for CD226 are the poliovirus receptor (CD155) and its family member nectin-2 (CD112), which are broadly expressed on epithelial, endothelial and neuronal cells. CD226 is physically associated with LFA-1 in NK cells and activated T cells, and involved in LFA-1-mediated signaling.

Product Details

Reactivity	Human, African Green, Baboon, Cynomolgus, Rhesus
Antibody Type	Monoclonal
Host Species	Mouse
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
Application	FC - Quality tested
Recommended Usage	<p>Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.</p> <p>Brilliant Violet 711™ excites at 405 nm and emits at 711 nm. The bandpass filter 710/50 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 711™ is a trademark of Sirigen Group Ltd.</p> <p>Learn more about Brilliant Violet™.</p> <p>This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.</p>
Excitation Laser	Violet Laser (405 nm)
Application Notes	Additional reported applications include: block NK cell-mediated lysis.
Application References	1. Fuchs A, <i>et al.</i> 2004. <i>J. Immunol.</i> 172:3994.
(PubMed link indicates BioLegend citation)	
RRID	AB_2728303 (BioLegend Cat. No. 338333) AB_2728304 (BioLegend Cat. No. 338334)

Antigen Details

Structure	Ig domain containing adhesion molecule
Distribution	Peripheral blood T cells, NK cells, monocytes/macrophages, platelets and megakaryocytes and a subset of B cells
Function	Receptor involved in intercellular adhesion, lymphocyte signaling, cytotoxicity and lymphokine secretion mediated by cytotoxic T-lymphocyte (CTL) and NK cell
Interaction	Interacts with LFA-1.
Ligand/Receptor	PVR (CD155) and Nectin-2 (CD112)
Cell Type	B cells, Macrophages, Megakaryocytes, Monocytes, NK cells, Platelets, T cells
Biology Area	Immunology
Molecular Family	CD Molecules
Antigen References	1. Shibuya A <i>et al.</i> 1996. <i>Immunity</i> 4:573. 2. Tahara-Hanaoka S <i>et al.</i> 2004. <i>Int. Immunol.</i> 16:533. 3. Pende D <i>et al.</i> 2005. <i>Mol. Immunol.</i> 42:463.
Gene ID	10666

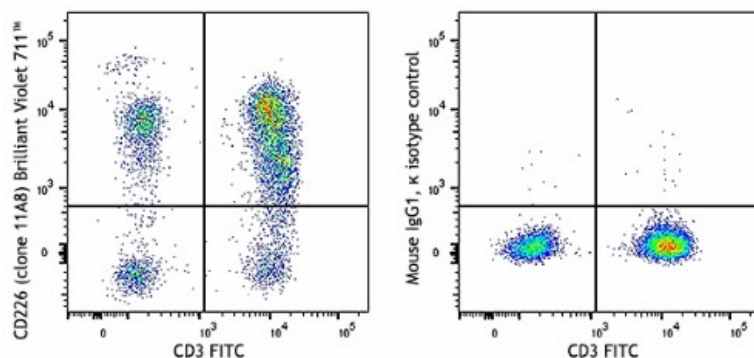
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human CD226 (DNAM-1), FITC anti-human CD226 (DNAM-1), PE anti-human CD226 (DNAM-1), APC anti-human CD226 (DNAM-1), PerCP/Cyanine5.5 anti-human CD226 (DNAM-1), PE/Cyanine7 anti-human CD226 (DNAM-1), APC/Fire™ 750 anti-human CD226 (DNAM-1), Brilliant Violet 785™ anti-human CD226 (DNAM-1), Brilliant Violet 605™ anti-human CD226 (DNAM-1), PE/Dazzle™ 594 anti-human CD226 (DNAM-1), Biotin anti-human CD226 (DNAM-1), Brilliant Violet 510™ anti-human CD226 (DNAM-1), Alexa Fluor® 647 anti-human CD226 (DNAM-1), Brilliant Violet 421™ anti-human CD226 (DNAM-1), Brilliant Violet 711™ anti-human CD226 (DNAM-1), TotalSeq™-A0368 anti-human CD226 (DNAM-1), TotalSeq™-C0368 anti-human CD226 (DNAM-1), TotalSeq™-B0368 anti-human CD226 (DNAM-1), TotalSeq™-D0368 anti-human CD226 (DNAM-1)

Product Data



Human peripheral blood lymphocytes were stained with CD3 FITC and CD226 (clone 11A8) Brilliant Violet 711™ (left) or mouse IgG1, κ Brilliant Violet 711™ isotype control (right).

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