

# CD226 (DNAM-1) Monoclonal Antibody (11A8.7.4), PE-Cyanine7, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	11A8.7.4
Conjugate	PE-Cyanine7
Excitation/Emission Max	569/780 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2722944

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	1 Publication

## Product Specific Information

The monoclonal antibody 11A8.7.4 reacts to DNAM-1 also known as CD226. DNAM 1 is a 65 kD receptor expressed by peripheral blood T lymphocytes that is involved in intercellular adhesion, lymphocyte signaling, cytotoxicity and lymphokine secretion mediated by cytotoxic T lymphocytes. DNAM 1 is broadly expressed on T cells, NK cells, platelets, monocytes and a subset of B cells. DNAM-1 is also expressed by a subset of CD3 positive thymocytes. The ligands for CD226 are the poliovirus receptor (PVR, CD155) and Poliovirus Related Receptor (PPR2, Nectin-2, CD112). CD226 is involved in cytolytic activity by interacting with integrins and activating protein tyrosine kinase Fyn.

The 11A8.7.4 antibody has been shown to increase T and NK cell-mediated cytotoxicity.

Applications Reported: This 11A8.7.4 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 11A8.7.4 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.25 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test.

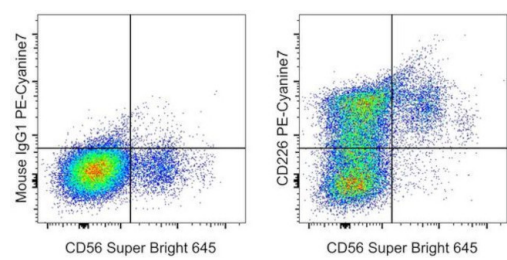
This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 µL of cell sample + 100 µL of IC Fixation

Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488-561 nm; Emission: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser

Product Images For CD226 (DNAM-1) Monoclonal Antibody (11A8.7.4), PE-Cyanine7, eBioscience™



**CD226 (DNAM-1) Antibody (25-2269-42) in Flow**  
Staining of normal human peripheral blood cells with CD56 Monoclonal Antibody, Super Bright 645 (Product # 64-0566-42) and Mouse IgG1 K Isotype, PE-Cyanine7 (Product # 25-4714-80) (left) or CD226 Monoclonal Antibody, PE-Cyanine7 (right). Cells in the lymphocyte gate were used for analysis.

1 Reference

Flow Cytometry (1)

Journal of cellular and molecular medicine	Year 2020
Dynamics of NK, CD8 and Tfh cell mediated the production of cytokines and antiviral antibodies in Chinese patients with moderate COVID-19.	Species Human
"25-2269-42 was used in Flow Cytometry to study the changes of NK, T- and B-cell subsets, inflammatory cytokines and virus-specific antibodies in patients with moderate COVID-19. Subsets were analysed using flow cytometry, cytokines and SARS-CoV-2-specific antibodies were analysed using an electrochemiluminescence immunoassay."	
Authors: Yan L,Cai B,Li Y,Wang MJ,An YF,Deng R,Li DD,Wang LC,Xu H,Gao XD,Wang LL	

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