

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

Product Details	
Size	100 Tests
Species Reactivity	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
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	-

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 10⁵ to 10⁸ cells/test.

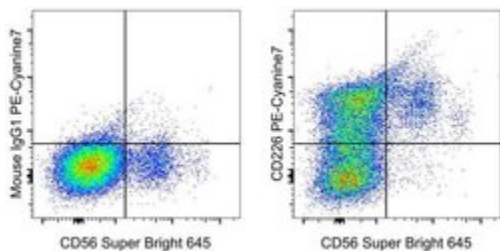
This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

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.

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