

CD314 (NKG2D) Monoclonal Antibody (1D11), PE-Cyanine7, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Hamster, 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	1D11
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_2573487

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	2 Publications

Product Specific Information

Description: The 1D11 monoclonal antibody reacts with the human NKG2D, a 42 kDa lectin-like molecule expressed by NK cells, gamma delta T cells, CD8+ T cells, and some CD4+ T cells. Human NKG2D forms complexes with DAP10, a membrane adaptor protein, and has the ability to costimulate multiple NK activation receptors. The counter-receptor for human NKG2D has been identified as MICA/MICB expressed on epithelial tumors from lung, breast, kidney, ovary, prostate and colon carcinoma. 5C6 and 1D11 block binding of soluble MICA to gamma delta TCR T cell clones and inhibit lysis by these cells. 5C6 and 1D11 induced NKG2D function of redirected lysis of FcReceptor bearing P815 cells.

Applications Reported: This 1D11 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 1D11 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.

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

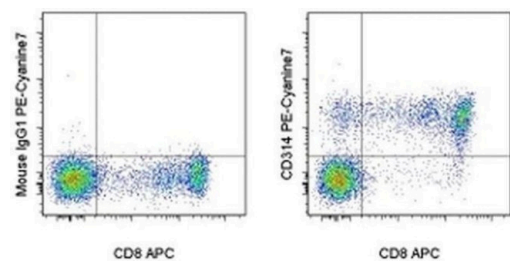
Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency

/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.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD314 (NKG2D) Monoclonal Antibody (1D11), PE-Cyanine7, eBioscience™



CD314 (NKG2D) Antibody (25-5878-42) in Flow
Staining of normal human peripheral blood cells with Anti-Human CD3 APC (Product # 17-0037-42) and Mouse IgG1 K Isotype Control PE-Cyanine7 (Product # 25-4714-80) (left) or Anti-Human CD314 (NKG2D) PE-Cyanine7 (right). Cells in the lymphocyte gate were used for analysis.

2 References

Flow Cytometry (2)

Chinese journal of cancer research = Chung-kuo yen cheng yen chiu	Year 2018
Combined peripheral natural killer cell and circulating tumor cell enumeration enhance prognostic efficiency in patients with metastatic triple-negative breast cancer.	Species Human
"25-5878 was used in Flow cytometry/Cell sorting to evaluate the predictive value of combined peripheral natural killer cell and circulating tumour cell enumeration in Triple-negative breast cancer."	
Authors: Liu X,Ran R,Shao B,Rugo HS,Yang Y,Hu Z,Wei Z,Wan F,Kong W,Song G,Jiang H,Liang X,Zhang R,Yan Y,Xu G,Li H	
Molecular therapy : the journal of the American Society of Gene Therapy	Year 2014
Sindbis viral vectors transiently deliver tumor-associated antigens to lymph nodes and elicit diversified antitumor CD8+ T-cell immunity.	Species Hamster
"25-5878 was used in Flow cytometry/Cell sorting to evaluate the use of Sindbis virus vectors carrying tumour-associated antigens for cancer therapy using a mouse colon carcinoma tumour model."	
Authors: Granot T,Yamanashi Y,Meruelo D	

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