CD314 (NKG2D) Monoclonal Antibody (1D11), FITC, 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), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	1D11
Conjugate	FITC
Excitation/Emission Max	498/517 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_2572509

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	6 Publications
Neutralization (Neu)	-	1 Publication

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.

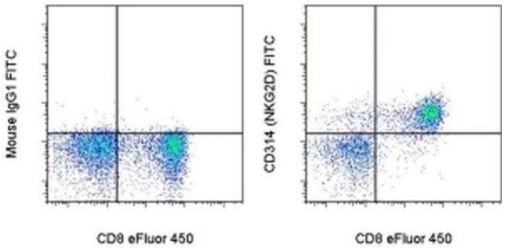
Applications Reported: The 1D11 antibody has been reported for use in flow cytometric analysis.

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 (0.125 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 10^5 to 10^8 cells/test.

Excitation: 488 nm; Emission: 520 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD314 (NKG2D) Monoclonal Antibody (1D11), FITC, eBioscience™



CD314 (NKG2D) Antibody (11-5878-42) in Flow
Staining of normal human peripheral blood cells with Anti-Human CD8a eFluor® 450 (Product # 48-0086-42) and Mouse IgG1 K Isotype Control FITC (Product # 11-4714-42) (left) or Anti-Human CD314 (NKG2D) FITC (right). Cells in the lymphocyte gate were used for analysis.

7 References

Flow Cytometry (6)

Frontiers in immunology

NKG2D as a Cell Surface Marker on -T Cells for Predicting Pregnancy Outcomes in Patients With Unexplained Repeated Implantation Failure.

"11-5878 was used in Flow cytometry/Cell sorting to investigate the association between the expression level of these receptors and pregnancy outcome in patients with uRIF."

Authors: Huang C,Xiang Z,Zhang Y,Li Y,Xu J,Zhang H,Zeng Y,Tu W

Year
2021

Species
Human

Genes & diseases

The number and cytotoxicity and the expression of cytotoxicity-related molecules in peripheral natural killer (NK) cells do not predict the repeated implantation failure (RIF) for the *in vitro* fertilization patients.

"11-5878-42 was used in Flow Cytometry to suggest that RIF is not associated with significant alterations in the number or function of peripheral blood NK cells."

Authors: Zhang H,Huang C,Chen X,Li L,Liu S,Li Y,Zhang Y,Zeng Y,Hu L

Year
2020

Species
Human

View more Flow references on thermofisher.cn

Neutralization (1)

Bioscience reports

miR-20a regulates sensitivity of colorectal cancer cells to NK cells by targeting MICA.

"Published figure using CD314 (NKG2D) monoclonal antibody (Product # 11-5878-42) in Flow Cytometry"

Authors: Tang S,Fu H,Xu Q,Zhou Y

Year
2019

More applications with references on thermofisher.cn