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# CD314 (NKG2D) Monoclonal Antibody (1D11), Biotin, eBioscience™

Product	Details
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Size	100 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Biotin, eBioscience™
Class	Monoclonal
Туре	Antibody
Clone	1D11
Conjugate	Biotin
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_466735

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	2 Publications
Miscellaneous PubMed (Misc)	-	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.

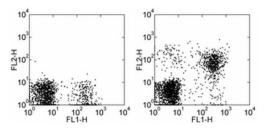
Applications Reported: The 1D11 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 1D11 antibody has been tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at less than or equal to 0.125  $\mu$ g per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Filtration: 0.2 µm post-manufacturing filtered.

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



#### CD314 (NKG2D) Antibody (13-5878-82) in Flow

Staining of normal human peripheral blood cells with Anti-Human CD8a FITC (Product # 11-0089-42) and 0.06 µg of Mouse IgG1 kappa Isotype Control Biotin (Product # 13-4714-85) (left) or 0.06 µg of Anti-Human CD314 (NKG2D) Biotin (right) followed by Streptavidin PE (Product # 12-4317-87). CD3+ cells in the lymphocyte gate were used for analysis.

## 3 References

## Flow Cytometry (2)

Bioscience reports miR-20a regulates sensitivity of colorectal cancer cells to NK cells by targeting MICA. "Published figure using CD314 (NKG2D) monoclonal antibody (Product # 13-5878-82) in Flow Cytometry" Authors: Tang S,Fu H,Xu Q,Zhou Y	<b>Year</b> 2019	
Cancer research A chimeric receptor with NKG2D specificity enhances natural killer cell	Year 2013	
activation and killing of tumor cells. "13-5878 was used in Flow cytometry/Cell sorting to show the cytotoxic potential of NK cells against tumour subtypes could be markedly enhanced by expression of NKG2D-DAP10-CD3 receptors." Authors: Chang YH,Connolly J,Shimasaki N,Mimura K,Kono K,Campana D	<b>Species</b> Human	

#### **Miscellaneous PubMed (1)**

Blood	Year
NKG2D receptor regulates human effector T-cell cytokine production.	2011
"13-5878 was used in Magnetic cell separation to reveal that human effector T cells alter their function depending on which innate receptors are engaged in conjunction with the TCR complex."	Species Human
Authors: Barber A,Sentman CL	

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