

NKG2D Monoclonal Antibody (1D11)

Catalog NumberMA5-16457

Product data sheet

Details		Species Reactivity	
Size	200 µg	Species reactivity	Human
Host/Isotope	Mouse / IgG1	Tested Applications	Dilution *
Class	Monoclonal		
Type	Antibody		
Clone	1D11		
Immunogen	NKL cells.	Flow Cytometry (Flow)	1:100
Conjugate	Unconjugated	Immunohistochemistry (Frozen) (IHC (F))	Assay-dependent
Form	Liquid	Immunoprecipitation (IP)	Assay-dependent
Concentration	1 mg/mL	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Purification	Protein G		
Storage buffer	PBS		
Contains	0.09% sodium azide		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

For FACS analysis, use 10 µL of the suggested working dilution to label 1x10^6 cells in 100 µL. Mouse anti Human CD314 antibody, clone 1D11 recognizes CD314, also known as natural killer receptor G2 (NKG2D) and as killer cell lectin-like receptor subfamily K, member 1 (KLRK1). CD314 is a C-type lectin-like activating receptor which is expressed on most natural killer (NK) cells, CD8 T cells and gamma delta T cells.

Background/Target Information

Natural killer (NK) cells are lymphocytes that can mediate lysis of certain tumor cells and virus-infected cells without previous activation. NK cells can regulate specific humoral and cell-mediated immunity, and preferentially express several calcium-dependent (C-type) lectins, which have been implicated in the regulation of NK cell function. The NK gene encodes a member of the NKG2 family, and the encoded transmembrane protein is characterized by a type II membrane orientation (extracellular C terminus) and the presence of a C-type lectin domain. The NKG2 gene family is located within the NK complex, a region that contains several C-type lectin genes preferentially expressed in NK cells.

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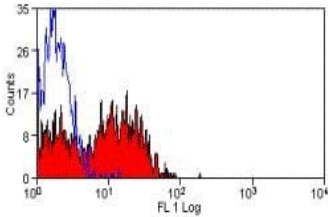
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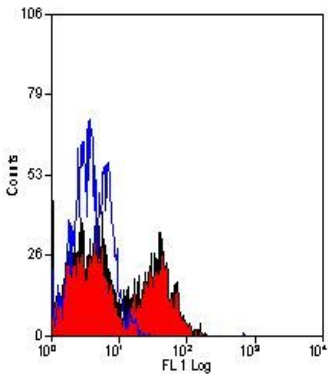
**NKG2D Antibody (MA5-16457) in Flow**

Flow cytometric analysis of human peripheral blood lymphocytes using a CD314/NKG2D monoclonal antibody (Product # MA5-16457)



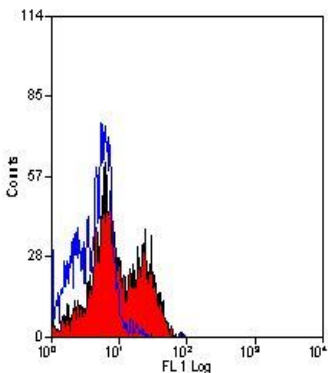
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