abcam

ab326492

FITC Anti-NKG2D antibody [1D11]

Key facts

Isotype	IgG1
Host species	Mouse
Conjugation	FITC
Excitation/Emission	Ex: 495nm, Em: 519nm
Storage buffer	pH: 7.4 Preservative: 0.098% Sodium azide Constituents: PBS, 0.2% BSA
Form	Liquid
Clonality	Monoclonal
Clone number	1D11
Purification technique	Size-exclusion chromatography
Specificity	The mouse monoclonal antibody 1D11 recognizes an extracellular epitope of CD314 / NKG2D, a 42 kDa C-type lectin-like activating receptor expressed by NK cells, gamma/delta T cells, and CD8+ T cells.
Light chain type	kappa
Purification notes	Purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	-
Notes	Flow cytometry: The reagent is designed for analysis of human blood cells using 4 µl reagent / 100 µl of whole blood or 10^6 cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.

Target data

See full target information KLRK1

Function	Functions as an activating and costimulatory receptor involved in immunosurveillance upon binding to various cellular stress-inducible ligands displayed at the surface of autologous tumor cells and virus-infected cells. Provides both stimulatory and costimulatory innate immune responses on activated killer (NK) cells, leading to cytotoxic activity. Acts as a costimulatory receptor for T-cell receptor (TCR) in CD8(+) T-cell-mediated adaptive immune responses by amplifying T-cell activation. Stimulates perforin-mediated elimination of ligand-expressing tumor cells. Signaling involves calcium influx, culminating in the expression of TNF. Participates in NK cell-mediated bone marrow graft rejection. May play a regulatory role in differentiation and survival of NK cells. Binds to ligands belonging to various subfamilies of MHC class I-related glycoproteins including MICA, MICB, RAET1E, RAET1G, RAET1L/ULBP6, ULBP1, ULBP2, ULBP3 (ULBP2>ULBP1>ULBP3) and ULBP4.

Storage

Shipped at conditions	Ambient - Can Ship with Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze, Store in the dark

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

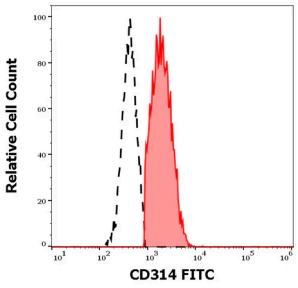
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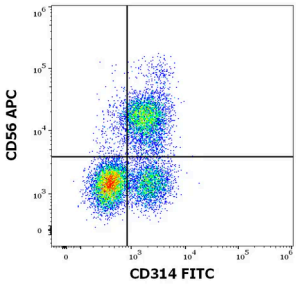
3 product images



Flow Cytometry - FITC Anti-NKG2D antibody [1D11] (ab326492)

NKG2D Flow Cytometry staining of human peripheral whole blood using mouse Anti-NKG2D antibody

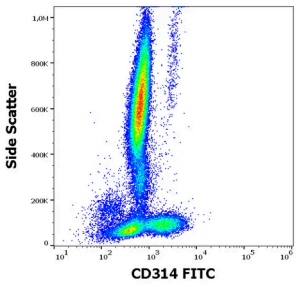
Separation of human CD314 positive CD56 positive NK cells (red-filled) from CD314 negative CD56 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using ab326492 (4 µl reagent / 100 µl of peripheral whole blood).



Flow Cytometry - FITC Anti-NKG2D antibody [1D11] (ab326492)

NKG2D Flow Cytometry staining of human lymphocytes using mouse Anti-NKG2D antibody

Flow cytometry multicolor surface staining of human lymphocytes stained using ab326492 (4 µl reagent / 100 µl of peripheral whole blood) and anti-human CD56 (LT56) APC antibody (10 µl reagent / 100 µl of peripheral whole blood).



Flow Cytometry - FITC Anti-NKG2D antibody [1D11] (ab326492)

NKG2D Flow Cytometry staining of human peripheral whole blood using mouse Anti-NKG2D antibody

Flow cytometry surface staining pattern of human peripheral whole blood stained using ab326492 (4 µl reagent / 100 µl of peripheral whole blood).

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