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anti-KLRK1 antibody (FITC)





Publications



Go to Product page

Overview

Quantity:	100 tests
Target:	KLRK1
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This KLRK1 antibody is conjugated to FITC
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	NKL cell line
Clone:	1D11
Isotype:	IgG1 kappa
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.
Cross-Reactivity (Details):	Human
Purification:	Purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

KLRK1
CD314 (KLRK1 Products)
Killer cell lectin like receptor K1,CD314, also known as NKG2D (natural killer receptor G2D) or KLRK1 (killer cell lectin-like receptor subfamily K, member 1), is a homodimeric C-type lectin-like activating receptor and costimulator with type II membrane orientation (C teminus extracellular). CD314 homodimers are associated with DAP10, a membrane adaptor protein that signals similar to CD28 by recruitment of phosphatidylinositol 3-kinase. Engagement of CD314 amplifies antigen-specific T cell responses in CD314-positive T cell populations. In NK cells, CD314 is a primary activating receptor. As CD314 ligands the MHC class-I chain-related proteins A and B (MICA, MICB) and UL16-binding proteins (ULBPs) have been identified.,NKG2D, KLRK1, KLR
22914
P26718
Activation of Innate immune Response, Cellular Response to Molecule of Bacterial Origin, Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process
Flow cytometry: The reagent is designed for analysis of human blood cells using 4 μ L reagent / 100 μ L of whole blood or 10 ⁶ cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.
The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary.
For Research Use only
No reconstitution is necessary.
Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Sodium azide

Handling

Handling Advice:	Do not freeze.
	Avoid prolonged exposure to light.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.
Publications	
Product cited in:	Valencia, Hernández-López, Martínez, Hidalgo, Zapata, Vicente, Varas, Sacedón: "Transient

Valencia, Hernández-López, Martínez, Hidalgo, Zapata, Vicente, Varas, Sacedón: "Transient beta-catenin stabilization modifies lineage output from human thymic CD34+CD1a-progenitors." in: **Journal of leukocyte biology**, Vol. 87, Issue 3, pp. 405-14, (2010) (PubMed).

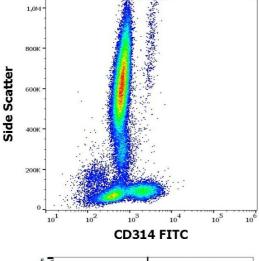
Hasenkamp, Borgerding, Uhrberg, Falk, Chapuy, Wulf, Jung, Trümper, Glass: "Self-tolerance of human natural killer cells lacking self-HLA-specific inhibitory receptors." in: **Scandinavian journal of immunology**, Vol. 67, Issue 3, pp. 218-29, (2008) (PubMed).

Sangiolo, Martinuzzi, Todorovic, Vitaggio, Vallario, Jordaney, Carnevale-Schianca, Capaldi, Geuna, Casorzo, Nash, Aglietta, Cignetti: "Alloreactivity and anti-tumor activity segregate within two distinct subsets of cytokine-induced killer (CIK) cells: implications for their infusion across major HLA barriers." in: International immunology, Vol. 20, Issue 7, pp. 841-8, (2008) (PubMed).

Ebert, Meuter, Moser: "Homing and function of human skin gammadelta T cells and NK cells: relevance for tumor surveillance." in: **Journal of immunology (Baltimore, Md.: 1950)**, Vol. 176, Issue 7, pp. 4331-6, (2006) (PubMed).

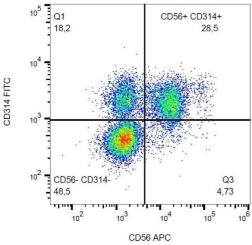
Wu, Groh, Spies: "T cell antigen receptor engagement and specificity in the recognition of stress-inducible MHC class I-related chains by human epithelial gamma delta T cells." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 169, Issue 3, pp. 1236-40, (2002) (PubMed).

There are more publications referencing this product on: Product page



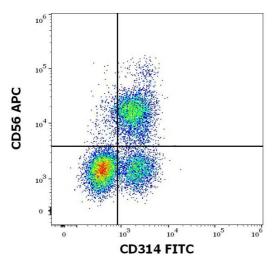
Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD314 (1D11) FITC antibody (4 μ L reagent / 100 μ L of peripheral whole blood).



Flow Cytometry

Image 2. Surface staining of human peripheral blood with anti-human CD314 (1D11) FITC.



Flow Cytometry

Image 3. Flow cytometry multicolor surface staining of human lymphocytes stained using anti-human CD314 (1D11) FITC antibody (4 μ L reagent / 100 μ L of peripheral whole blood) and anti-human CD56 (LT56) APC antibody (10 μ L reagent / 100 μ L of peripheral whole blood).

Please check the product details page for more images. Overall 4 images are available for ABIN1027688.