

Datasheet for ABIN2749144
anti-CD94 antibody (PE)



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Overview

Quantity:	100 tests
Target:	CD94 (KLRD1)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD94 antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Cultured human NK cells
Clone:	HP-3D9
Isotype:	IgG1 kappa
Specificity:	The mouse monoclonal antibody HP-3D9 recognizes an extracellular epitope of CD94, a 70 kDa type II transmembrane glycoprotein expressed on NK cells, NK-T cells, and subsets of CD8+ T cells and gamma/delta T cells.
Cross-Reactivity (Details):	Human
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	CD94 (KLRD1)
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Target Details

Alternative Name:	CD94 (KLRD1 Products)
Background:	Killer cell lectin like receptor D1,CD94, also known as KLRD1 (killer cell lectin-like receptor D1), is a transmembrane glycoprotein of the C-type lectin family, which forms disulfide-linked heterodimers with NKG2A, B, C, E, H proteins, constituting functionally distinct receptors of NK cells and related cell types. CD94/NKG2A and CD94/NKG2B heterodimers serve as inhibitory, whereas CD94/NKG2C and CD94/NKG2E as activating receptors. The ligand for CD94/NKG2 complexes has been identified as HLA-E. Extent of CD94 expression on NK cell surface can be used to demonstrate their progress through the differentiation process.,KLR-D1, KLRD1, KCLLRD1
Gene ID:	3824
UniProt:	Q13241

Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagent / 100 µL of whole blood or 10 ⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Comment:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only

Handling

Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

Product cited in:	Yu, Mao, Wei, Hughes, Zhang, Park, Liu, McClory, Marcucci, Trotta, Caligiuri: "CD94 surface
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density identifies a functional intermediary between the CD56bright and CD56dim human NK-cell subsets." in: **Blood**, Vol. 115, Issue 2, pp. 274-81, (2010) ([PubMed](#)).

Hallermalm, Seki, De Geer, Motyka, Bleackley, Jager, Froelich, Kiessling, Levitsky, Levitskaya: "Modulation of the tumor cell phenotype by IFN-gamma results in resistance of uveal melanoma cells to granule-mediated lysis by cytotoxic lymphocytes." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 180, Issue 6, pp. 3766-74, (2008) ([PubMed](#)).

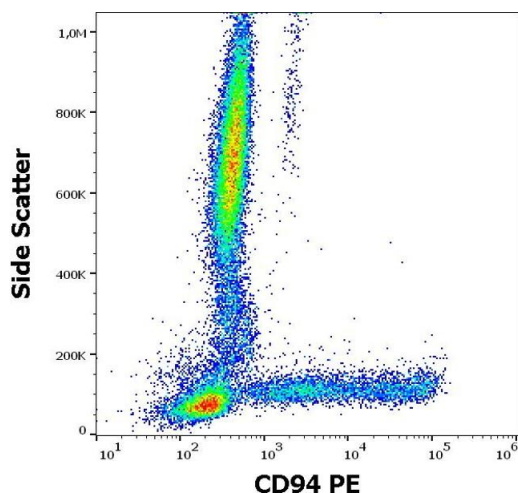
Bovenschen, Van De Kerkhof, Gerritsen, Seyger: "The role of lesional T cells in recalcitrant psoriasis during infliximab therapy." in: **European journal of dermatology : EJD**, Vol. 15, Issue 6, pp. 454-8, (2005) ([PubMed](#)).

Wada, Matsumoto, Maenaka, Suzuki, Yamamoto: "The inhibitory NK cell receptor CD94/NKG2A and the activating receptor CD94/NKG2C bind the top of HLA-E through mostly shared but partly distinct sets of HLA-E residues." in: **European journal of immunology**, Vol. 34, Issue 1, pp. 81-90, (2004) ([PubMed](#)).

Ntrivalas, Kwak-Kim, Gilman-Sachs, Chung-Bang, Ng, Beaman, Mantouvalos, Beer: "Status of peripheral blood natural killer cells in women with recurrent spontaneous abortions and infertility of unknown aetiology." in: **Human reproduction (Oxford, England)**, Vol. 16, Issue 5, pp. 855-61, (2001) ([PubMed](#)).

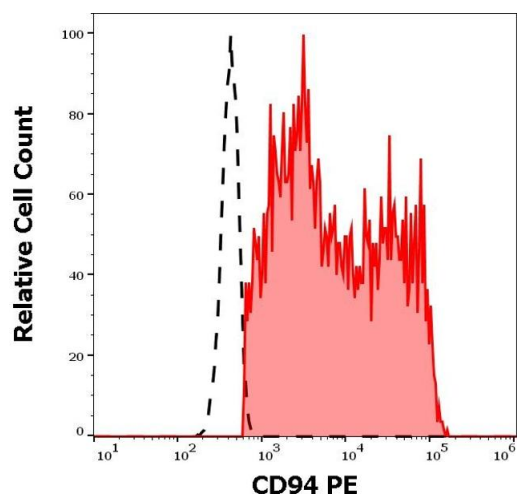
There are more publications referencing this product on: [Product page](#)

Images



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD94 (HP-3D9) PE antibody (10 µL reagent / 100 µL of peripheral whole blood).



Flow Cytometry

Image 2. Separation of human CD94 positive lymphocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD94 (HP-3D9) PE antibody (10 μ L reagent / 100 μ L of peripheral whole blood).