

Datasheet for ABIN1690739
anti-LAIR1 antibody (PE)



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Overview

Quantity:	100 tests
Target:	LAIR1
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This LAIR1 antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Activated NK cells and CD3- thymocytes
Clone:	NKTA255
Isotype:	IgG1
Specificity:	The mouse monoclonal antibody NKTA255 recognizes an extracellular epitope of CD305 / LAIR1, a 40 kDa type I transmembrane glycoprotein expressed on NK, T, and B cells, monocytes, dendritic cells, eosinophils, basophils, mast cells, CD34+ hematopoietic progenitor cells and thymocytes.
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:	LAIR1
Alternative Name:	CD305 / LAIR1 (LAIR1 Products)
Background:	Leukocyte associated immunoglobulin like receptor,CD305, also known as LAIR1 (leukocyte-associated Ig-like receptor 1), is an inhibitory receptor found on many types of peripheral blood cells. It serves to suppress cell cytotoxicity, activation, proliferation, and differentiation regarding autoantigens via its two intracellular ITIM sites. CD305 belongs to the immunoglobulin superfamily and the leukocyte-associated inhibitory receptor family of proteins. It reacts with collagen ligands.,LAIR1
Gene ID:	3903
UniProt:	Q6GTX8

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

Reconstitution:	No reconstitution is necessary.
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.
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.

Product cited in:

Colombo, Canevali, Magnani, Rossi, Puppo, Zocchi, Poggi: "Defective expression and function of the leukocyte associated Ig-like receptor 1 in B lymphocytes from systemic lupus erythematosus patients." in: **PLoS ONE**, Vol. 7, Issue 2, pp. e31903, (2012) ([PubMed](#)).

Son, Santiago-Schwarz, Al-Abed, Diamond: "C1q limits dendritic cell differentiation and activation by engaging LAIR-1." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 109, Issue 46, pp. E3160-7, (2012) ([PubMed](#)).

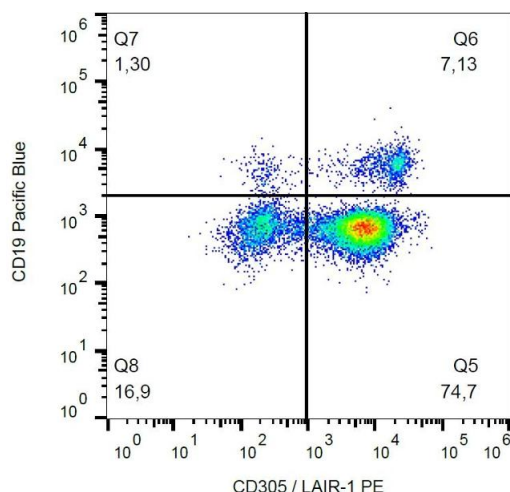
Meyaard: "The inhibitory collagen receptor LAIR-1 (CD305)." in: **Journal of leukocyte biology**, Vol. 83, Issue 4, pp. 799-803, (2008) ([PubMed](#)).

Warren: "The Eighth Human Leucocyte Differentiation Antigen (HLDA8) Workshop: natural killer cell section report." in: **Cellular immunology**, Vol. 236, Issue 1-2, pp. 17-20, (2005) ([PubMed](#)).

Poggi, Tomasello, Ferrero, Zocchi, Moretta: "p40/LAIR-1 regulates the differentiation of peripheral blood precursors to dendritic cells induced by granulocyte-monocyte colony-stimulating factor." in: **European journal of immunology**, Vol. 28, Issue 7, pp. 2086-91, (1998) ([PubMed](#)).

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

Images



Flow Cytometry

Image 1. Flow cytometry analysis (surface staining) of CD305 / LAIR-1 in human peripheral blood (lymphocyte gate) with anti-CD305 (NKTA255) PE.