

Datasheet for ABIN1690731

anti-LAIR1 antibody

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Overview

Quantity:	0.1 mg
Target:	LAIR1
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This LAIR1 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunoprecipitation (IP)

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 by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

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: Recommended dilution: 1-4 µg/mL.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	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.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

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](#)).

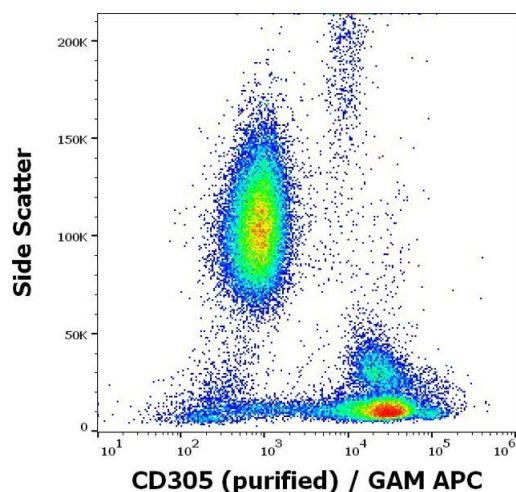
Meyaard: "The inhibitory collagen receptor LAIR-1 (CD305)." in: **Journal of leukocyte biology**, Vol. 83, Issue 4, pp. 799-803, (2008) ([PubMed](#)).

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](#)).

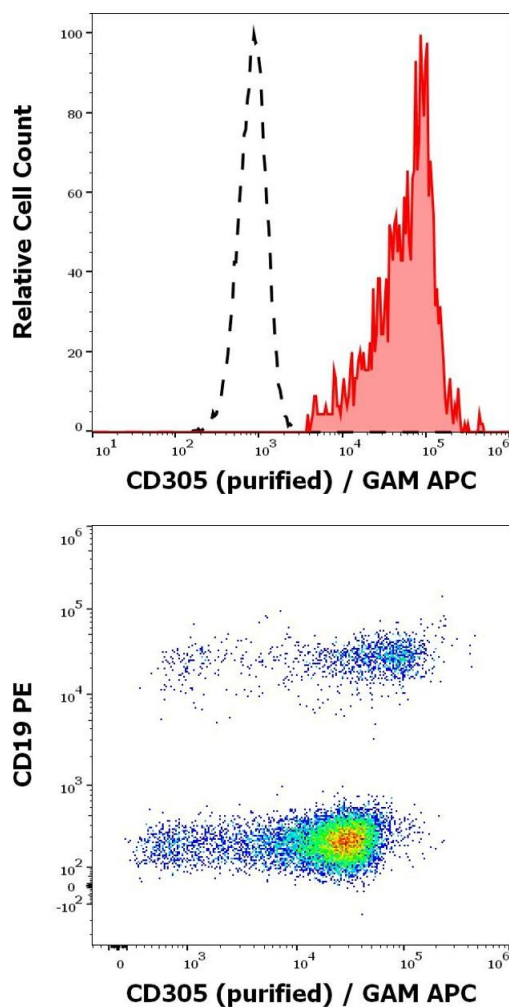
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Images



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD305 (NKTA255) purified antibody (concentration in sample 2 μ g/mL, GAM APC).



Flow Cytometry

Image 2. Separation of human CD305 positive CD19 positive B cells (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of peripheral whole blood stained using anti-human CD305 (NKTA255) purified antibody (concentration in sample 2 μ g/mL, GAM APC).

Flow Cytometry

Image 3. Flow cytometry multicolor surface staining of human lymphocytes stained using anti-human CD305 (NKTA255) purified antibody (concentration in sample 2 μ g/mL, GAM APC) and anti-human CD19 (LT19) PE antibody (20 μ L reagent / 100 μ L of peripheral whole blood).