

Mouse anti-Human CD305 Antibody | anti-CD305 antibody

Anti-Hu CD305 PE-Cy7

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA129364	Mouse	Human	Flow Cytometry, Functional Assay

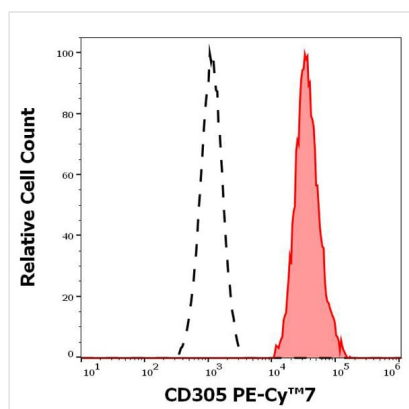
PRODUCT SYNONYMS

CD305; Anti-Hu CD305 PE-Cy7; leukocyte associated immunoglobulin like receptor; LAIR1; anti-CD305 antibody

PRODUCT SPECIFICATIONS

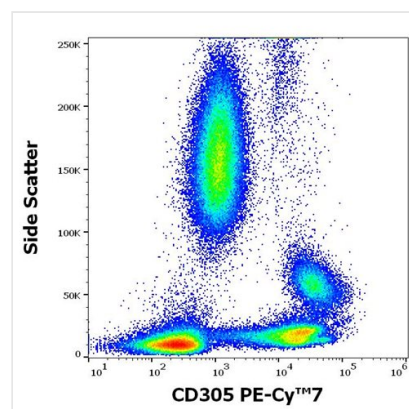
Host	Mouse
Reactivity	Human
Isotype	Mouse IgG1
Clone Number	NKTA255
Specificity	The mouse monoclonal antibody NKTA255 recognizes an extracellular epitope of CD305/LAIR1, a 40 kDa type I transmembrane glycoprotein expressed on NK, T, and B cells, monocytes, dendritic cells, eosinophils, basophils, mast cells, CD34+ hematopoietic progenitor cells and thymocytes.
Purity/Purification	Purified antibody is conjugated with activated tandem dye of R-phycoerythrin-cyanine 7 (PE-Cy7) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
Form/Format	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Applicable Applications for anti-CD305 antibody	FCM/FACS (Flow Cytometry)
Immunogen	Activated NK cells and CD3- thymocytes
Conjugation	PE-Cy7
Preparation and Storage	Store at 2-8 degree C. Protect from prolonged exposure to light. Do not freeze.

IMAGES



FCM/FACS (Flow Cytometry)

Separation of human monocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD305 (NKTA255) PE-Cy7 antibody (concentration in sample 0.33ug/ml).



FCM/FACS (Flow Cytometry)

Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD305 (NKTA255) PE-Cy7 antibody (concentration in sample 0.33ug/ml).

ADDITIONAL INFORMATION

Related Product Information for anti-CD305 antibody	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.
References	*Colombo BM, Canevali P, Magnani O, Rossi E, Puppo F, Zocchi MR, Poggi A: Defective expression and function of the leukocyte associated Ig-like receptor 1 in B lymphocytes from systemic lupus erythematosus patients. PLoS One. 2012;7(2):e31903, URL: http://www.ncbi.nlm.nih.gov/pubmed/?term=colombo+bm+canevali+p ,*Poggi A, Tomasello E, Ferrero E, Zocchi MR, Moretta L: p40/LAIR-1 regulates the differentiation of peripheral blood precursors to dendritic cells induced by granulocyte-monocyte colony-stimulating factor. Eur J Immunol. 1998 Jul;28(7):2086-91., URL: http://www.ncbi.nlm.nih.gov/pubmed/9692876 ,*Poggi A, Tomasello E, Revello V, Nanni L, Costa P, Moretta L: p40 molecule regulates NK cell activation mediated by NK receptors for HLA class I antigens and TCR-mediated triggering of T lymphocytes. Int Immunol. 1997 Sep;9(9):1271-9., URL: http://www.ncbi.nlm.nih.gov/pubmed/9310830 ,*Meyaard L: The inhibitory collagen receptor LAIR-1 (CD305). J Leukoc Biol. 2008 Apr;83(4):799-803., URL: http://www.ncbi.nlm.nih.gov/pubmed/18063695 ,*Son M, Santiago-Schwarz F, Al-Abed Y, Diamond B: C1q limits dendritic cell differentiation and activation by engaging LAIR-1. Proc Natl Acad Sci U S A. 2012 Nov 13;109(46):E3160-7, URL: http://www.ncbi.nlm.nih.gov/pubmed/23093673 ,*Poggi A, Pella N, Morelli L, Spada F, Revello V, Sivori S, Augugliaro R, Moretta L, Moretta A: p40, a novel surface molecule involved in the regulation of the non-major histocompatibility complex-restricted cytolytic activity in humans. Eur J Immunol. 1995 Feb;25(2):369-76., URL: http://www.ncbi.nlm.nih.gov/pubmed/7875198 ,*Warren HS: The Eighth Human Leucocyte Differentiation Antigen (HLDA8) Workshop: natural killer cell section report. Cell Immunol. 2005 Jul-Aug;236(1-2):17-20., URL: http://www.ncbi.nlm.nih.gov/pubmed/16157321,

NCBI AND UNIPROT INFORMATION

NCBI GI #	612407867
NCBI GeneID	3903
NCBI Accession #	NP_001275952.2
NCBI GenBank Nucleotide #	NM_001289023.2
UniProt Accession #	Q6GTX8
Molecular Weight	23,049 Da
NCBI Official Full Name	leukocyte-associated immunoglobulin-like receptor 1 isoform c
NCBI Official Synonym Full Names	leukocyte-associated immunoglobulin-like receptor 1
NCBI Official Symbol	LAIR1
NCBI Official Synonym Symbols	CD305; LAIR-1
NCBI Protein Information	leukocyte-associated immunoglobulin-like receptor 1; leukocyte-associated Ig-like receptor 1
UniProt Protein Name	Leukocyte-associated immunoglobulin-like receptor 1
UniProt Gene Name	LAIR1
UniProt Synonym Gene Names	CD305; LAIR-1; hLAIR1
UniProt Entry Name	LAIR1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.