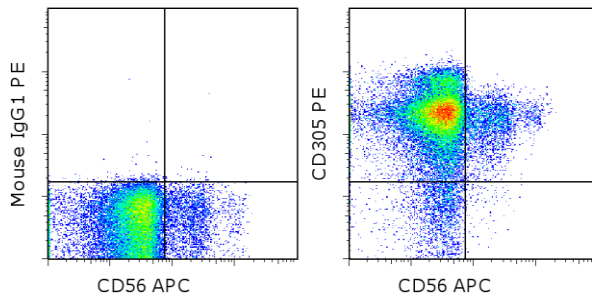


## Anti-Human CD305 (LAIR1) PE

**Catalog Number:** 12-3059

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



Staining of normal human peripheral blood cells with Anti-Human CD56 (NCAM) APC (cat. 17-0567) and Mouse IgG1 K Isotype Control PE (cat. 12-4714) (left) or Anti-Human CD305 (LAIR1) PE (right). Cells in the lymphocyte gate were used for analysis.

### Product Information

**Contents:** Anti-Human CD305 (LAIR1) PE  
**Catalog Number:** 12-3059  
**Clone:** NKTA255  
**Concentration:** 5  $\mu$ L (0.06  $\mu$ g)/test  
**Host/Isotype:** Mouse IgG1

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer  
**Temperature Limitation:** Store at 2-8°C. Do not freeze. Light-sensitive material.  
**Batch Code:** Refer to vial  
**Use By:** Refer to vial

### Description

This NKTA255 monoclonal antibody reacts with human CD305, which is also known as leukocyte-associated Ig-like receptor (LAIR) 1. CD305 is a type I transmembrane glycoprotein that possesses an extracellular Ig-like domain and two intracellular ITIMs. CD305 is expressed on nearly all immune cells, including T, NK, and B cells, as well as monocytes, dendritic cells, eosinophils, basophils, and mast cells. In humans, this molecule is also expressed on CD34+ hematopoietic progenitor cells and thymocytes. Several isoforms of CD305 exist due to alternative splicing, and their expression may differ between cell types. As an inhibitory receptor, CD305 blocks cytokine-mediated signaling, cell proliferation, and apoptosis. Studies have also identified collagens as the ligands for CD305.

The NKTA255 antibody has been reported to inhibit NK cytolytic activity.

### Applications Reported

This NKTA255 antibody has been reported for use in flow cytometric analysis.

### Applications Tested

This NKTA255 antibody has been pre-titrated and tested by flow cytometric analysis of human peripheral blood cells. This can be used at 5  $\mu$ L (0.06  $\mu$ g) per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  cells/test.

### References

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Meyaard L. The inhibitory collagen receptor LAIR-1 (CD305). *J Leukoc Biol.* 2008 Apr;83(4):799-803.

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. (NKTA255, FC)

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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. (**NKTA255**, FA)

### **Related Products**

12-4714 Mouse IgG1 K Isotype Control PE (P3.6.2.8.1)

17-0567 Anti-Human CD56 (NCAM) APC (CMSSB)

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