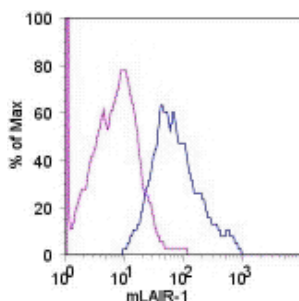


## Anti-Mouse CD305 (LAIR-1) Functional Grade Purified

**Catalog Number:** 16-3051

**Also Known As:** LAIR1, LAIR 1, Leukocyte-Associated Ig-Like Receptor, Leukocyte Associated Ig-Like Receptor, Leukocyte Associated Ig Like Receptor

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



Staining of C57Bl/6 splenocytes with 0.125 ug of Armenian Hamster IgG Isotype Control Purified (cat. 14-4888) (purple line) or 0.125 ug of Anti-Mouse CD305 (LAIR-1) (blue line) followed by Anti-Armenian Hamster IgG PE (cat. 12-4112). Total viable F4/80 positive cells were used for analysis.

### Product Information

**Contents:** Anti-Mouse CD305 (LAIR-1) Functional Grade Purified

**REF** **Catalog Number:** 16-3051

**Clone:** 113

**Concentration:** 1 mg/mL

**Host/Isotype:** Armenian Hamster IgG


**Handling Conditions:** Use in sterile environment.

**Endotoxin Level:** Less than 0.001 ng/ug antibody, as determined by the LAL assay.

**Formulation:** aqueous buffer, no sodium azide

 **Temperature Limitation:** Store at 2-8°C.

 **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

### Description

CD305 or Leukocyte-associated Ig-like receptor-1 (LAIR-1) is a 46 kD cell surface molecule that functions as an inhibitory collagen-receptor on the majority of cells of the immune system. The mouse LAIR-1 molecule is expressed primarily on monocytes/macrophages and also on T cells, NK cells and dendritic cells. Unlike human B cells, mouse B cells do not express LAIR-1. The cytoplasmic tail of mouse LAIR-1 can be phosphorylated leading to the recruitment of SH2-containing tyrosine phosphatase(SHP)-2 and C-terminal Src kinase.

### Applications Reported

This 113 antibody has been reported for use in flow cytometric analysis, immunoprecipitation, and immunoblotting (WB). It has also been reported for use in functional studies.

### Applications Tested

This 113 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

Meyaard L. The inhibitory collagen receptor LAIR-1 (CD305). *J Leukoc Biol.* 2008 Apr;83(4):799-803. Epub 2007 Dec 6. Review.

Lebbink RJ, de Ruiter T, Kaptijn GJ, Bihan DG, Jansen CA, Lenting PJ, Meyaard L. Mouse leukocyte-associated Ig-like receptor-1 (mLAIR-1) functions as an inhibitory collagen-binding receptor on immune cells. *Int Immunol.* 2007 Aug;19(8):1011-9. Epub 2007 Aug 16. (113, FC, WB, IP, Pubmed)

Meyaard L, Adema GJ, Chang C, Woollatt E, Sutherland GR, Lanier LL, Phillips JH. LAIR-1, a novel inhibitory receptor expressed on human mononuclear leukocytes. *Immunity.* 1997 Aug;7(2):283-90.

### Related Products

11-4801 Anti-Mouse F4/80 Antigen FITC (BM8)

12-4112 Anti-Armenian Hamster IgG PE (Polyclonal)

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