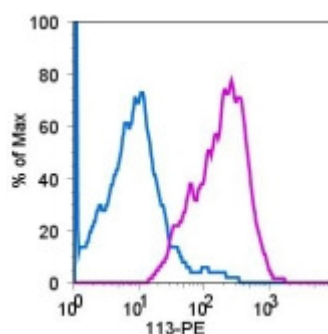




Product Information

Catalog Number: 12-3051

Contents: Phycoerythrin (PE) anti-mouse LAIR-1 (CD305, Leukocyte-Associated Ig-Like Receptor)
Catalog Number: 12-3051
Sizes: 50 ug, 100 ug
Formulation: Phosphate buffered saline, pH 7.2, less than or equal to 0.09% NaN₃
Storage Conditions: Store at 4°C.
 DO NOT FREEZE.
 LIGHT-SENSITIVE MATERIAL.
Clone: 113
Isotype: Armenian Hamster IgG subclass unknown



Staining of C57Bl/6 splenocytes with 0.125 µg of PE Armenian Hamster IgG Iso Cntrl (cat. 12-4888) (red line) or 0.125 µg of PE anti-mouse LAIR-1 (113) (green line). Total viable F4/80 positive cells were used for analysis.

Available Formats of This Product

Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
12-3051	Phycoerythrin (PE) anti-mouse CD305 (LAIR-1, Leukocyte-Associated Ig-Like Receptor)	488	575	FC

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

For research use only, not for diagnostic or therapeutic use. This 113 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This 113 antibody has been tested by flow cytometric analysis. This can be used at less than or equal to 0.25 µg per million cells in a 100 µl total staining volume. 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, 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

Cat. 11-4801 FITC anti-mouse F4/80 Antigen (Pan Macrophage Marker, BM8) (clone BM8)

Cat. 12-4888 Phycoerythrin (PE) Armenian Hamster IgG Isotype Control (clone eBio299Arm)