
Anti-Human CD85g (ILT7) Functional Grade Purified

Catalog Number: 16-5179

Also known as: ILT-7, LILRA4

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

Product Information

Contents: Anti-Human CD85g (ILT7)
Functional Grade Purified

REF **Catalog Number:** 16-5179

Clone: eBio17G10.2 (17G10.2)

Concentration: 1 mg/mL

Host/Isotype: Mouse IgG1

Handling Conditions: Use in sterile environment.

Endotoxin: 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

The eBio17G10.2 monoclonal antibody reacts with human immunoglobulin-like transcript 7 (ILT7), also known as CD85g. ILT7 is part of the leukocyte immunoglobulin-like receptor (LIR) gene family and associates with Fc epsilon R1 gamma to form a functional complex which transduces ITAM-mediated signals that negatively modulates TLR-induced type I IFN production by human plasmacytoid dendritic cells. ILT7 is expressed exclusively on plasmacytoid dendritic cells and is absent in monocyte derived DCs. Treatment with IL-3 or CpG causes a decrease in expression.

Double staining of human PBMCs with eBio17G10.2 and anti-pDC marker BDCA2 yields virtually complete co-staining. Cross linking of ILT7 with eBio17G10.2 antibody causes reduced transcription of IFN alpha1, IFN alpha2, IFN alpha4 and IFN beta.

Applications Reported

This eBio17G10.2 (17G10.2) antibody has been reported for use in flow cytometric analysis and functional assays.

Applications Tested

This eBio17G10.2 (17G10.2) antibody has been tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at less than or equal to 1 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Cao, W., et al. 2006. Plasmacytoid dendritic cell-specific receptor ILT7-FcRI inhibits Toll-like receptor-induced interferon production. *J. Exp. Med.* 203: 1399-1405.

Ju XS, Hacker C, Scherer B, Redecke V, Berger T, Schuler G, Wagner H, Lipford GB, Zenke M. Immunoglobulin-like transcripts ILT2, ILT3 and ILT7 are expressed by human dendritic cells and down-regulated following activation. *Gene.* 2004 Apr 28;331:159-64.

Rissoan MC, Duhon T, Bridon JM, Bendriss-Vermare N, Peronne C, de Saint Vis B, Briere F, Bates EE. Subtractive hybridization reveals the expression of immunoglobulin-like transcript 7, Eph-B1, granzyme B, and 3 novel transcripts in human plasmacytoid dendritic cells. *Blood.* 2002 Nov 1;100(9):3295-303.

Related Products

11-4011 Anti-Mouse IgG FITC

11-4317 Streptavidin FITC

12-4317 Streptavidin PE

13-4013 Anti-Mouse IgG Biotin (Polyclonal)

16-4714 Mouse IgG1 K Isotype Control Functional Grade Purified (P3.6.2.8.1)

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