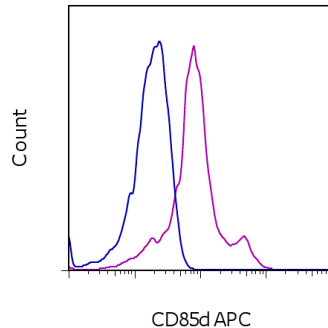


Anti-Human CD85d (ILT4) APC

Catalog Number: 17-5149

Also known as: LIR2, LILRB2, MIR10

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



Staining of normal human peripheral blood cells with Rat IgG2a K Isotype Control APC (cat. 17-4321) (blue histogram) or Anti-Human CD85d (ILT4) APC (purple histogram). Cells in the monocyte gate were used for analysis.

Product Information

Contents: Anti-Human CD85d (ILT4) APC



Catalog Number: 17-5149

Clone: 42D1

Concentration: 5 μ L (0.25 μ g)/test

Host/Isotype: Rat IgG2a, kappa

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

Contains sodium azide



Description

The monoclonal antibody 42D1 recognizes the CD85d protein also known as ILT4, LIR-2. It is a member of the ILT (immunoglobulin-like transcript)/ LIR (leukocyte Ig-like receptor), MIR (monocytes Ig-like receptor) family. CD85d is a 110 kDa single transmembrane receptor with 3 Ig-like domains and a long cytoplasmic domain containing ITIMs (immunoreceptor tyrosine-based inhibitory motifs). Expression is confined to monocytes, macrophages and dendritic cells. The ligand for CD85d is non-classical class I HLA-G, -B and G1. Upon ligand binding, tyrosine phosphatase SHP-1 interacts with the ITIM. Interaction of HLA-G with ILT4/CD85d is thought to contribute to tolerance during fetal implantation. Additionally, it is the levels of ILT3 and ILT4 on DCs that suggests a role in organ allograft rejection.

Crosslinking of the receptor with the monoclonal antibody 42D1 inhibits calcium flux as well as enhancing HLA-G tetramer staining and restoring the stimulating activity of tolerogenic DC.

Applications Reported

This 42D1 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This 42D1 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 μ L (0.25 μ g) per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

References

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Exp Med. 1999 Apr 5;189(7):1149-56.

Colonna M, Nakajima H, Navarro F, López-Botet M. A novel family of Ig-like receptors for HLA class I molecules that modulate function of lymphoid and myeloid cells. J Leukoc Biol. 1999 Sep;66(3):375-81

Manavalan JS, Rossi PC, Vlad G, Piazza F, Yarilina A, Cortesini R, Mancini D, Suci-Foca N. High expression of ILT3 and ILT4 is a general feature of tolerogenic dendritic cells. Transpl Immunol. 2003 Jul-Sep;11(3-4):245-58. (42D1, FA, FC, PubMed)

Related Products

00-4222 Flow Cytometry Staining Buffer

11-0149 Anti-Human CD14 FITC (61D3)

17-4321 Rat IgG2a K Isotype Control APC (eBR2a)

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