
Anti-Human CD85d (ILT4) Functional Grade Purified

Catalog Number: 16-5148

Also known as: ILT-4, LIR2, LILRB2, MIR10

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

Product Information

Contents: Anti-Human CD85d (ILT4)
Functional Grade Purified
Catalog Number: 16-5148
Clone: 27D6
Concentration: 1 mg/mL
Host/Isotype: Rat IgM
Handling Conditions: Use in sterile environment.
Endotoxin: Less than 0.001 ng/ug antibody, as determined by the LAL assay.

REF



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 monoclonal antibody 27D6 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 containing 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.

The monoclonal antibody 27D6 has been shown to block binding of ligand (HLA-G tetramer).

Applications Reported

This 27D6 antibody has been reported for use **in vitro** in blocking assays and in flow cytometric analysis.

Applications Tested

This 27D6 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

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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(27D6, PubMed)

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Related Products

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