
Anti-Human CD85k (ILT3) Functional Grade Purified

Catalog Number: 16-5139

Also Known As: ILT-3, LIR5, LILRB4, HM18, GM 4d

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

Product Information

Contents: Anti-Human CD85k (ILT3) Functional Grade Purified

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Clone: ZM4.1

Concentration: 1 mg/mL

Host/Isotype: Mouse IgG1

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

The monoclonal antibody ZM4.1 recognizes ILT3, also known as CD85k. ILT3 is a member of the large family of ILT molecules (Immunoglobulin-like Transcripts, Leucocyte Ig-like Receptors (LIRs) and Monocyte/Macrophage Ig-like Receptors (MIRs). ILT3 is a 60kDa transmembrane protein with two Ig domains and ITIMs. Expression is found on monocytes, macrophages, and dendritic cells. High levels of ILT3 expression is also found on plasmacytoid dendritic cells (pDCs). ILT3 expression by DCs has been shown to be required to induce Regulatory T cells (Tregs). Addition of ZM4.1, like ZM3.8, blocks the suppressive function of the Tregs in in vitro culture systems with allogenic DC's.

Applications Reported

This ZM4.1 antibody has been reported for use in flow cytometric analysis and has been shown to block Treg function in vitro.

Applications Tested

This ZM4.1 antibody has been tested by flow cytometric analysis of normal human peripheral blood cells. 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Cella M, Döhning C, Samaridis J, Dessing M, Brockhaus M, Lanzavecchia A, Colonna M. A novel inhibitory receptor (ILT3) expressed on monocytes, macrophages, and dendritic cells involved in antigen processing. J Exp Med. 1997 May 19;185(10):1743-51. (ILT3, IP, FC, PubMed)

Penna G, Roncari A, Amuchastegui S, Daniel KC, Berti E, Colonna M, Adorini L. Expression of the inhibitory receptor ILT3 on dendritic cells is dispensable for induction of CD4+Foxp3+ regulatory T cells by 1,25-dihydroxyvitamin D3. Blood. 2005 Nov 15;106(10):3490-7. (ILT3, FA, PubMed)

Related Products

16-4714 Mouse IgG1 K Isotype Control Functional Grade Purified (P3.6.2.1)

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