
Anti-Human CD85h (ILT1) Functional Grade Purified

Catalog Number: 16-5119

Also known as: ILT-1, LIR7, LILRA2

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

Product Information

Contents: Anti-Human CD85h (ILT1)
Functional Grade Purified
Catalog Number: 16-5119
Clone: 135.4
Concentration: 1 mg/mL
Host/Isotype: Rat IgG2a, k
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 monoclonal antibody 135.4 recognizes ILT1, also known as CD85h, LIR7 and LILRA2. ILT1 is a member of the large family of ILT molecules (Immunoglobulin-like Transcripts) also known as Leukocyte Ig-like Receptors (LIRs) and Monocyte/Macrophage Ig-like Receptors (MIRs). ILT1 contains a short cytoplasmic domain. Through the cytoplasmic domain ILT1 associates with the Fc receptor gamma chain but not DAP12 resulting in a stimulatory signal. ILT1 may act as a receptor for MHC Class I antigens. Expression of ILT1 is mainly found on monocytes, macrophages, DC and weakly on granulocytes. ILT1 is thought to play a role in the TH1/Th2 balance as well as TLR signaling.

The monoclonal antibody 135.4 has been reported to have activating properties upon crosslinking which result in calcium influx.

Applications Reported

This 135.4 antibody has been reported for use in flow cytometric analysis and functional assays where it is reported to activate and induce calcium flux.

Applications Tested

This 135.4 antibody has been tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at less than or equal to 0.5 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

Mamegano K, Kuroki K, Miyashita R, Kusaoi M, Kobayashi S, Matsuta K, Maenaka K, Colonna M, Ozaki S, Hashimoto H, Takasaki Y, Tokunaga K, Tsuchiya N. Association of LILRA2 (ILT1, LIR7) splice site polymorphism with systemic lupus erythematosus and microscopic polyangiitis. *Genes Immun.* 2008 Feb 14;1-10 (**135.4**, 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. (**135.4**, FA, PubMed)

Nakajima H, Samaridis J, Angman L, Colonna M. Human myeloid cells express an activating ILT receptor (ILT1) that associates with Fc receptor gamma-chain. *J Immunol.* 1999 Jan 1;162(1):5-8. (**135.4**, FC, IP, FA PubMed)

Related Products

16-4321 Rat IgG2a K Isotype Control Functional Grade Purified (eBR2a)

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