

LEAF™ Purified anti-human CD85d (ILT4)

Catalog # / Size: 338704 / 500 µg

Clone: 42D1

Isotype: Rat IgG2a, κ

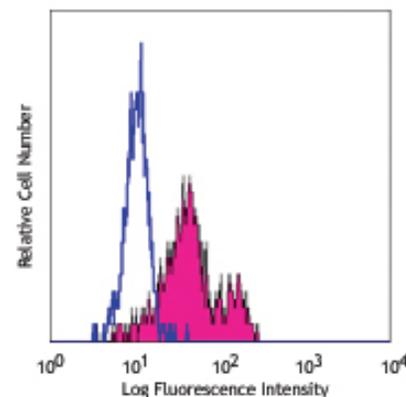
Reactivity: Human

Preparation: The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.

Formulation: 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.

Concentration: 1.0 mg/ml

Storage: The antibody solution should be stored undiluted 2°C and 8°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.



Human peripheral blood monocytes stained with LEAF™ purified 42D1, followed by anti-rat IgG FITC

Applications:

Applications: FC - Quality tested
FA - Reported in the literature

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤2.0 µg per million cells in 100 µl volume or 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications include: negatively modulate myelomonocytic cells signaling. Enhance the binding of HLA-G tetramer to monocytes.

Application References: 1. Colonna M, *et al.* 1998. *J. Immunol.* 160:3096
2. Allan DS. 1999. *J. Exp. Med.* 189:1149

Description: CD85 is a group of Ig superfamily transmembrane glycoproteins called Ig-Like Transcripts (ILTs) or Leukocyte Immunoglobulin-like Receptors (LIRs). It is composed of both activating and inhibitory isoforms. The activating subset of ILTs is characterized by containing short cytoplasmic domains and positively charged arginine residues, while the inhibitory isoforms display long cytoplasmic tails containing ITIM motifs. CD85d is a 95kD inhibitory receptor, also known as ILT4, LIR2, or MIR10. ILT4 is expressed on the surface of monocytes/macrophages, and dendritic cells. ILT4 acts as an inhibitory receptor through recruitment of SHP-1 and SHP-2 protein tyrosine phosphatases. The ligands of ILT4 are HLA-A, -B and nonclassical MHC-I molecule HLA-G1.

Antigen References: 1. Zola H, *et al.* 2007. *Leukocyte and Stromal Cell Molecules: The CD Markers* Wiley-Liss A John Wiley & Sons Inc, Publication
2. Shiroishi M, *et al.* 2003. *Proc. Natl. Acad. Sci.* 100:8856
3. Colonna M, *et al.* 1998. *J. Immunol.* 160:3096
4. Lichterfeld M, *et al.* 2007. *J. Exp. Med.* 204:2813

Related Products:

Product
LEAF™ Purified Rat IgG2a, κ Isotype Ctrl

Cell Staining Buffer
RBC Lysis Buffer (10X)

Clone
RTK2758

Application
FC, ICFC, WB, IP, ICC, IF,
IHC, FA
FC, ICC, ICFC
FC, ICFC



For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.



*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.