

## Purified anti-human CD85d (ILT4)

**Catalog # / Size:** 338702 / 100 µg

**Clone:** 42D1

**Isotype:** Rat IgG2a, κ

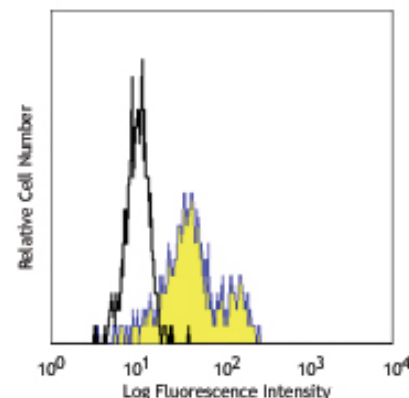
**Reactivity:** Human

**Preparation:** This antibody is at >85% purity.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.5 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C.



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

## Applications:

**Applications:** FC - *Quality tested*

**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. 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:**

<b>Product</b>	<b>Clone</b>	<b>Application</b>
Purified Rat IgG2a, κ Isotype Ctrl	RTK2758	FC, ICC, IF, IHC, IP, WB
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC



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