

CD85d (ILT4) Monoclonal Antibody (27D6), Functional Grade, eBioscience™

Product Details	
Size	50 µg
Species Reactivity	Human
Host/Isotype	Rat / IgM
Recommended Isotype Control	Rat IgM Isotype Control (eBRM), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	27D6
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage conditions	4° C
RRID	AB_10670018

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1 µg/test	1 Publication
Neutralization (Neu)	Assay-Dependent	-
Functional Assay (FN)	Assay-Dependent	-

Product Specific Information

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.

Storage and handling: Use in a sterile environment.

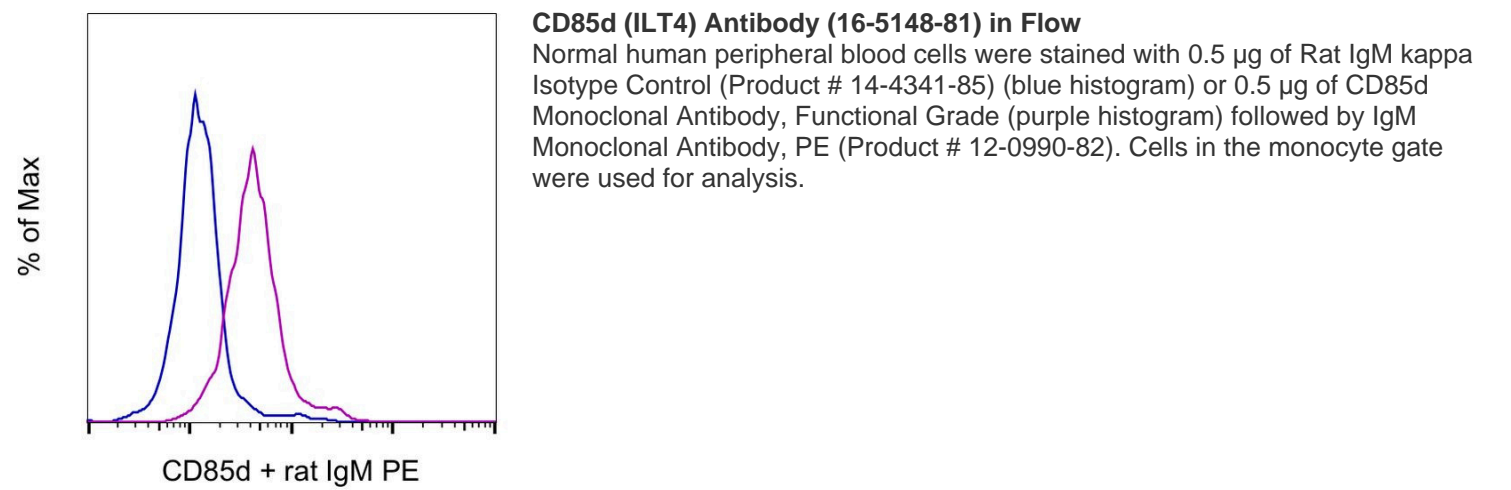
Filtration: 0.2 µm post-manufacturing filtered.

Purity: Greater than 90%, as determined by SDS-PAGE.

Endotoxin Level: Less than 0.001 ng/μg antibody, as determined by LAL assay.

Aggregation: Less than 10%, as determined by HPLC.

Product Images For CD85d (ILT4) Monoclonal Antibody (27D6), Functional Grade, eBioscience™



1 Reference

Flow Cytometry (1)

The Journal of experimental medicine		Year 1999
Tetrameric complexes of human histocompatibility leukocyte antigen (HLA)-G bind to peripheral blood myelomonocytic cells.		
"Published figure using CD85d (ILT4) monoclonal antibody (Product # 16-5148-81) in Flow Cytometry"		
Authors: Allan DS,Colonna M,Lanier LL,Churakova TD,Abrams JS,Ellis SA,McMichael AJ,Braud VM		

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