

CD85j (ILT2) Monoclonal Antibody (HP-F1), Functional Grade, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Non-human primate, Human
Host/Isotope	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HP-F1
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_10669632

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	3 Publications
Functional Assay (FN)	Assay-Dependent	-

Product Specific Information

Description: The monoclonal antibody HP-F1 recognizes CD85j, also known as ILT2, LILRB1, and LIR1. CD85j is a member of the ILT (immunoglobulin-like transcript)/LIR (leukocyte Ig-like receptor)/MIR (monocyte Ig-like receptor) family. CD85j is a single transmembrane glycoprotein with a long cytoplasmic domain containing 4 ITIMs which signal through interactions with SHP-1. Expression is found on myeloid cells (monocytes and dendritic cells) and some lymphoid cells including, subsets of NK, T and B cells. Expression has been correlated with leukemias such as ALL and CLL. Expression on CD8+ cells correlates with effector cell function and plays an important role in viral infections, including HIV, Epstein Barr and CMV. The ligands for CD85j are MHC Class I molecules such as HLA-G, A, F, B27, E and F.

The monoclonal antibody HP-F1 has been shown to reduce the amount of CD16- dependent cytolytic activity of functional NK cells.

Applications Reported: This HP-F1 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This HP-F1 antibody has been tested by flow cytometric analysis of normal human peripheral cells. This can be used at less than or equal to 0.125 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.

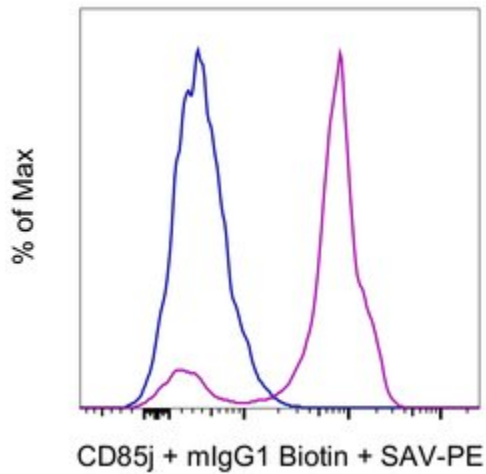
Filtration: 0.2 µm post-manufacturing filtered.

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 CD85j (ILT2) Monoclonal Antibody (HP-F1), Functional Grade, eBioscience™



CD85j (ILT2) Antibody (16-5129-82) in Flow

Normal human peripheral blood cells were stained with 0.06 µg of Mouse IgG1 kappa Isotype Control (Product # 14-4714-85) (blue histogram) or 0.06 µg of CD85j Monoclonal Antibody, Functional Grade (purple histogram) followed by Anti-IgG1 Monoclonal Antibody, Biotin (Product # 13-4015-82) and Streptavidin, PE (Product # 12-4317-87). Cells in the monocyte gate were used for analysis.

Flow Cytometry (3)

Oncoimmunology

Targeting Ewing sarcoma with activated and GD2-specific chimeric antigen receptor-engineered human NK cells induces upregulation of immune-inhibitory HLA-G.

"Published figure using CD85j (ILT2) monoclonal antibody (Product # 16-5129-82) in Flow Cytometry"

Authors: Kailayangiri S, Altwater B, Spurny C, Jamitzky S, Schelhaas S, Jacobs AH, Wiek C, Roellecke K, Hanenberg H, Hartmann W, Wiendl H, Pankratz S, Meltzer J, Farwick N, Greune L, Fluegge M, Rossig C

Species
Human

Dilution
Not Cited

Year
2019

Proceedings of the National Academy of Sciences of the United States of America

Synergistic inhibition of natural killer cells by the nonsignaling molecule CD94.

"16-5129 was used in Flow cytometry/Cell sorting to elucidate the benefits of having two distinct inhibitory receptor-ligand systems to inhibit natural killer cells."

Authors: Cheent KS, Jamil KM, Cassidy S, Liu M, Mbiribindi B, Mulder A, Claas FH, Purbhoo MA, Khakoo SI

Species
Human

Dilution
Not Cited

Year
2013

[View more Flow references on thermofisher.com](#)

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