

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

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HP-F1
Conjugate	PE
Excitation/Emission Max	565/576 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10804645

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	6 Publications

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.

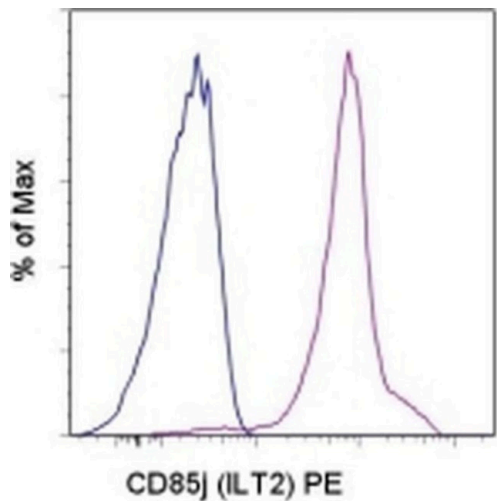
Applications Reported: This HP-F1 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This HP-F1 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (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.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD85j (ILT2) Monoclonal Antibody (HP-F1), PE, eBioscience™



CD85j (ILT2) Antibody (12-5129-42) in Flow
Staining of normal human peripheral blood cells with Mouse IgG1 K Isotype Control PE (Product # 12-4714-81) (blue histogram) or Anti-Human CD85j (ILT2) PE (purple histogram). Cells in the monocyte gate were used for analysis.

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6 References

Flow Cytometry (6)

Immunogenetics	Year 2022
Natural LILRB1 D1-D2 variants show frequency differences in populations and bind to HLA class I with various avidities.	
"Published figure using CD85j (ILT2) monoclonal antibody (Product # 12-5129-42) in Flow Cytometry"	
Authors: Liu F,Cocker ATH,Pugh JL,Djaoud Z,Parham P,Guethlein LA	
Signal transduction and targeted therapy	Year 2021
Interaction between HLA-G and NK cell receptor KIR2DL4 orchestrates HER2-positive breast cancer resistance to trastuzumab.	Species Human
"12-5129-42 was used in Flow Cytometry to investigate if the nonclassical histocompatibility antigen HLA-G desensitizes breast cancer cells to trastuzumab by binding to the natural killer (NK) cell receptor KIR2DL4."	
Authors: Zheng G,Guo Z,Li W,Xi W,Zuo B,Zhang R,Wen W,Yang AG,Jia L	

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