

CD85j (ILT2) Monoclonal Antibody (HP-F1), PerCP-eFluor™ 710, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PerCP-eFluor™ 710, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HP-F1
Conjugate	PerCP-eFluor™ 710
Excitation/Emission Max	482/708 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_10735377

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	3 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-diluted and tested by flow cytometric analysis of normal human peripheral blood cells. This may 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.

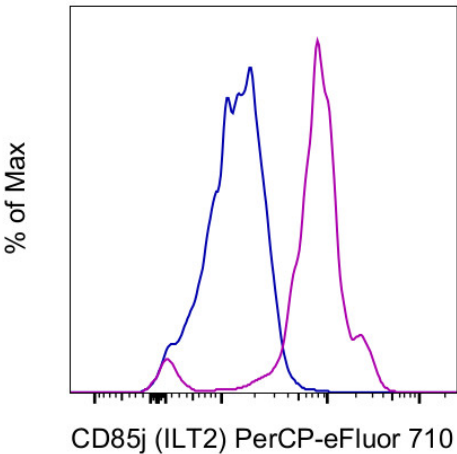
PerCP-eFluor 710 emits at 710 nm and is excited with the blue laser (488 nm); it can be used in place of PerCP-Cyanine5.5. We recommend using a 710/50 bandpass filter, however, the 695/40 bandpass filter is an acceptable alternative. Please make sure that your instrument is capable of detecting this fluorochrome.

Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-57) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488 nm; Emission: 710 nm; Laser: Blue Laser

Product Images For CD85j (ILT2) Monoclonal Antibody (HP-F1), PerCP-eFluor™ 710, eBioscience™



CD85j (ILT2) Antibody (46-5129-42) in Flow
Normal human peripheral blood cells were stained with Mouse IgG1 kappa Isotype Control, PerCP-eFluor 710 (Product # 46-4714-82) (blue histogram) or CD85j (ILT2) Monoclonal Antibody, PerCP-eFluor 710 (purple histogram). Cells in the monocyte gate were used for analysis.

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3 References

Flow Cytometry (3)

<p>Immunogenetics</p> <p>Natural LILRB1 D1-D2 variants show frequency differences in populations and bind to HLA class I with various avidities.</p> <p>"Published figure using CD85j (ILT2) monoclonal antibody (Product # 46-5129-42) in Flow Cytometry"</p> <p>Authors: Liu F,Cocker ATH,Pugh JL,Djaoud Z,Parham P,Guethlein LA</p>	<p>Year</p> <p>2022</p>
<p>Signal transduction and targeted therapy</p> <p>Interaction between HLA-G and NK cell receptor KIR2DL4 orchestrates HER2-positive breast cancer resistance to trastuzumab.</p> <p>"Published figure using CD85j (ILT2) monoclonal antibody (Product # 46-5129-42) in Flow Cytometry"</p> <p>Authors: Zheng G,Guo Z,Li W,Xi W,Zuo B,Zhang R,Wen W,Yang AG,Jia L</p>	<p>Year</p> <p>2021</p>

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

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