

# CD85j (ILT2) Monoclonal Antibody (HP-F1), Super Bright™ 600, eBioscience™

Product Details	
Size	25 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Super Bright™ 600, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HP-F1
Conjugate	Super Bright™ 600
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2784870

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	2 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.

**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 (0.5 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 10<sup>5</sup> to 10<sup>8</sup> cells/test.

Super Bright 600 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 600 nm. We recommend using a 610/20 bandpass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for

Super Bright Staining Buffer for more information.

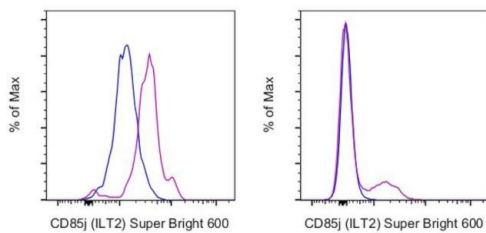
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100  $\mu$ L of cell sample + 100  $\mu$ L 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: 405 nm; Emission: 600 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

## Product Images For CD85j (ILT2) Monoclonal Antibody (HP-F1), Super Bright™ 600, eBioscience™



### CD85j (ILT2) Antibody (63-5129-41) in Flow

Normal human peripheral blood cells were stained with Mouse IgG1 kappa Isotype Control, Super Bright 600 (Product # 63-4714-82) (blue histogram) or HP-F1 Monoclonal Antibody, Super Bright 600 (purple histogram). Cells in the monocyte (left) and lymphocyte (right) gates were used for analysis.

## 2 References

### Flow Cytometry (2)

#### Immunogenetics

#### 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 # 63-5129-42) in Flow Cytometry"

Authors: Liu F, Cocker ATH, Pugh JL, Djaoud Z, Parham P, Guethlein LA

Year  
2022

#### PloS one

#### Identification of GAD65 AA 114-122 reactive 'memory-like' NK cells in newly diagnosed Type 1 diabetic patients by HLA-class I pentamers.

"Published figure using CD85j (ILT2) monoclonal antibody (Product # 63-5129-42) in Flow Cytometry"

Authors: Perri V, Giancchetti E, Cifaldi L, Pellegrino M, Giorda E, Andreani M, Cappa M, Fierabracci A

Year  
2018

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