

# CD85j (ILT2) Monoclonal Antibody (HP-F1), FITC, 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), FITC, eBioscience™ |
| Class                       | Monoclonal  |
| Type                        | Antibody  |
| Clone                       | HP-F1   |
| Conjugate                   | FITC  |
| Excitation/Emission Max     | 498/517 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_2815037  |

| Applications          | Tested Dilution     | Publications   |
|-----------------------|---------------------|----------------|
| Flow Cytometry (Flow) | 5 µL (0.25 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.

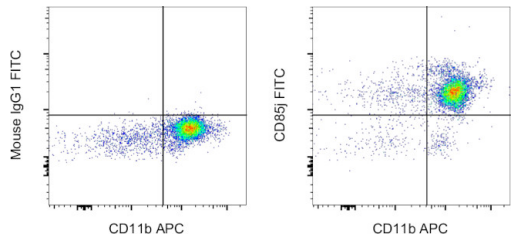
The monoclonal antibody HP-F1 has been shown to reduce the amount of CD16- dependent cytolytic activity of functional NK cells.

**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 (0.25 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.

**Excitation:** 488 nm; **Emission:** 520 nm; **Laser:** Blue Laser

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



**CD85j (ILT2) Antibody (11-5129-42) in Flow**  
Normal human peripheral blood cells were stained with CD11b Monoclonal Antibody, APC (Product # 17-0118-42) and Mouse IgG1 kappa Isotype Control, FITC (Product # 11-4714-82) (left) or CD85j Monoclonal Antibody, FITC (right). Cells in the monocyte gate were used for analysis.

3 References

Flow Cytometry (3)

|   |                                |
|---|--------------------------------|
| <p><b>Immunogenetics</b></p> <p><b>Natural LILRB1 D1-D2 variants show frequency differences in populations and bind to HLA class I with various avidities.</b></p> <p>"Published figure using CD85j (ILT2) monoclonal antibody (Product # 11-5129-42) in Flow Cytometry"</p> <p>Authors: Liu F,Cocker ATH,Pugh JL,Djaoud Z,Parham P,Guethlein LA</p>                                | <p><b>Year</b></p> <p>2022</p> |
| <p><b>Signal transduction and targeted therapy</b></p> <p><b>Interaction between HLA-G and NK cell receptor KIR2DL4 orchestrates HER2-positive breast cancer resistance to trastuzumab.</b></p> <p>"Published figure using CD85j (ILT2) monoclonal antibody (Product # 11-5129-42) 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><b>Year</b></p> <p>2021</p> |

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

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