

IL-2 Monoclonal Antibody (MQ1-17H12), eFluor 450, eBioscience

| Product Details | |
|-----------------------------|--|
| Size | 100 Tests |
| Species Reactivity | Human |
| Host/Isotype | Rat / IgG2a, kappa |
| Recommended Isotype Control | Rat IgG2a kappa Isotype Control (eBR2a), eFluor 450, eBioscience |
| Class | Monoclonal |
| Type | Antibody |
| Clone | MQ1-17H12 |
| Conjugate | eFluor® 450 |
| Form | Liquid |
| Concentration | 5 µL/Test |
| Purification | Affinity chromatography |
| Storage buffer | PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA |
| Contains | 0.09% sodium azide |
| Storage Conditions | 4° C, store in dark, DO NOT FREEZE! |
| RRID | AB_2574101 |

| Applications | Tested Dilution | Publications |
|-----------------------|--------------------|---------------|
| Flow Cytometry (Flow) | 5 µL (0.5 µg)/test | 1 Publication |

Product Specific Information

Description: The MQ1-17H12 antibody reacts with human interleukin-2 (IL-2), a 17 kDa T cell growth factor and a major immunoregulatory cytokine. The MQ1-17H12 antibody is a non-neutralizing antibody.

Applications Reported: This MQ1-17H12 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

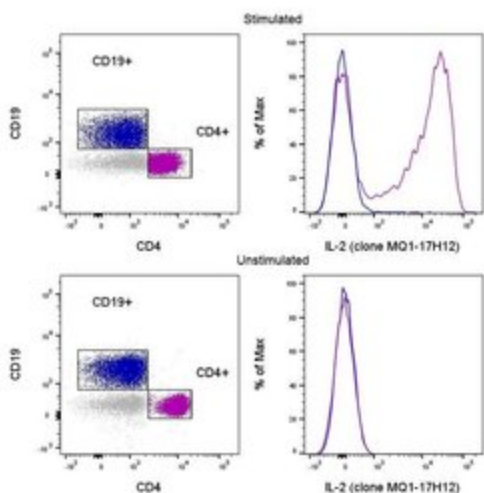
Applications Tested: This MQ1-17H12 antibody has been pre-titrated and tested by intracellular staining and flow cytometric analysis of stimulated normal human peripheral blood cells. This can be used at 5 µL (0.5 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

eFluor® 450 is an alternative to Pacific Blue®. eFluor® 450 emits at 445 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 405 nm; Emission: 445 nm; Laser: Violet Laser.

Filtration: 0.2 µm post-manufacturing filtered.

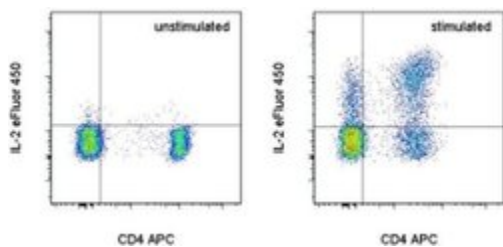
Advanced Verification Data



IL-2 Antibody (48-7029-42)

Intracellular staining of stimulated human peripheral blood cells. As expected based on known expression patterns, IL-2 clone MQ1-17H12 stains a subset of CD4+ T cells only after stimulation (top) and does not stain CD19+ B cells regardless of stimulation (top and bottom). Details: Normal human peripheral blood cells were cultured in the presence of Protein Transport Inhibitors (Unstimulated, bottom row) or Cell Stimulation Cocktail (plus protein transport inhibitors, 500X) for 5 hours (Stimulated, top row). Cells were fixed and permeabilized with the IC Fixation & Permeabilization Buffer Set and protocol followed by intracellular staining with CD19 (clone SJ25C1), CD4 (clone RPA-T4), and IL-2 (clone MQ1-17H12). Cells in the CD19+ (blue histogram) or CD4+ (purple histogram) gates were used for analysis. Cell treatment validation info.

Product Images For IL-2 Monoclonal Antibody (MQ1-17H12), eFluor 450, eBioscience



IL-2 Antibody (48-7029-42) in Flow

Normal human peripheral blood cells were unstimulated (left) or stimulated for 5 hours with the Cell Stimulation Cocktail (plus protein transport inhibitors) (Product # 00-4975-03) (right) and then intracellularly stained with Anti-Human CD4 APC (Product # 17-0047-42) and Anti-Human IL-2 eFluor® 450, using the IC Fixation & Permeabilization Buffer Set (Product # 88-8824-00). Total viable cells, as determined by Fixable Viability Dye eFluor® 780 (Product # 65-0865-14), were used for analysis.

1 Reference

Flow Cytometry (1)

Protein engineering, design & selection : PEDS

A novel dual-cytokine-antibody fusion protein for the treatment of CD38-positive malignancies.

"Published figure using IL-2 monoclonal antibody (Product # 48-7029-42) in Flow Cytometry"

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Species
Not Applicable

Dilution
Not Cited

Year
2018

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