IL-2 Monoclonal Antibody (MQ1-17H12), FITC, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Human
Host/Isotope	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	MQ1-17H12
Conjugate	FITC
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_465385

Applications	Tested	Dilution	Published
Flow Cytometry (Flow)	✓	1 µg/test	4 Publications

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.

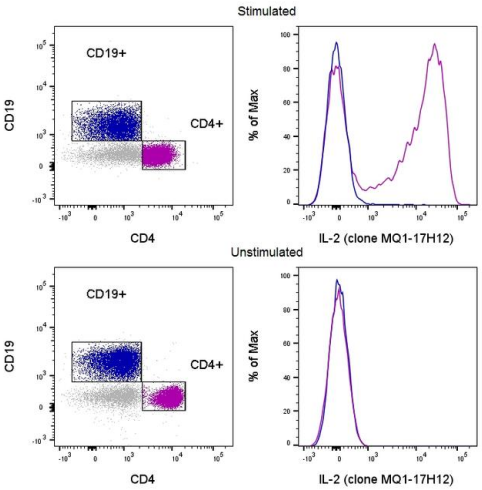
Applications Reported: MQ1-17H12 has been reported for use in intracellular flow cytometric analysis.

Applications Tested: This MQ1-17H12 antibody has been tested by intracellular staining and flow cytometric analysis of stimulated normal human peripheral blood cells. This can be used at less than or equal to 1 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

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

Filtration: 0.2 µm post-manufacturing filtered.

Advanced Verification Data



IL-2 Antibody (11-7029-82)
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 and 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.

4 References

Flow Cytometry (4)

The Journal of experimental medicine

Anti-TNF drives regulatory T cell expansion by paradoxically promoting membrane TNF-TNF-RII binding in rheumatoid arthritis.

"11-7029 was used in Flow cytometry/Cell sorting to investigate whether TNF boosts of inhibits regulatory T cells (T reg cells), showing that anti-TNF drives regulatory T cell expansion by promoting membrane TNF-TNF-RII binding, in rheumatoid arthritis."

Authors: Nguyen DX,Ehrenstein MR

Species
Human

Dilution
Not Cited

Year
2016

Journal of immunology (Baltimore, Md. : 1950)

Transcriptional profile of tuberculosis antigen-specific T cells reveals novel multifunctional features.

"11-7029 was used in Flow cytometry/Cell sorting to study the role of CD4(+) T cells in latent tuberculosis infection, showing that tuberculosis antigen-specific T cells have novel multifunctional features."

Authors: Arlehamn CL,Seumois G,Gerasimova A,Huang C,Fu Z,Yue X,Sette A,Vijayanand P,Peters B

Species
Human

Dilution
Not Cited

Year
2014

View more Flow references on thermofisher.com