

IL-2 Monoclonal Antibody (MQ1-17H12), PE-Cyanine7, eBioscience™

Product Details	
Size	25 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	MQ1-17H12
Conjugate	PE-Cyanine7
Excitation/Emission Max	569/780 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_2573517

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	16 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: 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 normal human peripheral blood cells. This can 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.

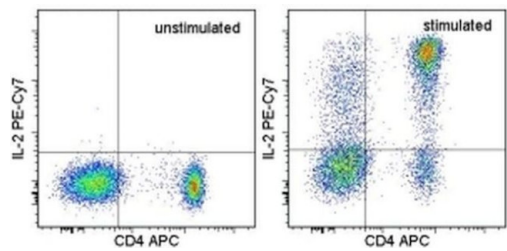
Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) 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: 488-561 nm; **Emission:** 775 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For IL-2 Monoclonal Antibody (MQ1-17H12), PE-Cyanine7, eBioscience™

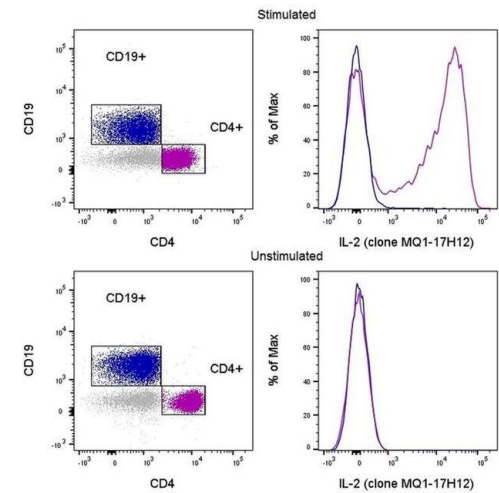


IL-2 Antibody (25-7029-41) in Flow

Normal human peripheral blood cells were unstimulated (left) or stimulated (right) with Cell Stimulation Cocktail (plus protein transport inhibitors) (Product # 00-4975-03). Cells were intracellularly stained with Anti-Human CD4 APC (Product # 17-0047-42) and Rat IgG2a K Isotype Control PE-Cyanine7 (Product # 25-4321-82) or Anti-Human IL-2 PE-Cyanine7. Viable cells, as determined by Fixable Viability Dye eFluor® 780 (Product # 65-0865-14), in the lymphocyte gate were used for analysis.

IL-2 Antibody (25-7029-41)

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. {TM}



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Flow Cytometry (16)

Nature communications

Dynamics of spike-and nucleocapsid specific immunity during long-term follow-up and vaccination of SARS-CoV-2 convalescents.

Year
2022

"Published figure using IL-2 monoclonal antibody (Product # 25-7029-42) in Flow Cytometry"

Authors: Koerber N,Priller A,Yazici S,Bauer T,Cheng CC,Mijoevi H,Wintersteller H,Jeske S,Vogel E,Feuerherd M, Tinnefeld K,Winter C,Ruland J,Gerhard M,Haller B,Christa C,Zelger O,Roggendorf H,Halle M,Erber J,Lingor P,Keppler O,Zehn D,Protzer U,Knolle PA

Frontiers in cellular and infection microbiology

Decreased Frequencies of Gamma/Delta T Cells Expressing Th1/Th17 Cytokine, Cytotoxic, and Immune Markers in Latent Tuberculosis-Diabetes/Pre-Diabetes Comorbidity.

Year
2021

"Published figure using IL-2 monoclonal antibody (Product # 25-7029-42) in Flow Cytometry"

Authors: Kathamuthu GR,Kumar NP,Moideen K,Menon PA,Babu S

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