

IL-2 Monoclonal Antibody (MQ1-17H12), PerCP-eFluor™ 710, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PerCP-eFluor™ 710, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	MQ1-17H12
Conjugate	PerCP-eFluor™ 710
Excitation/Emission Max	482/708 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_1834419

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.06 µg)/test	13 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 flow cytometric analysis of activated human peripheral blood cells. This can be used at 5 µL (0.06 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.

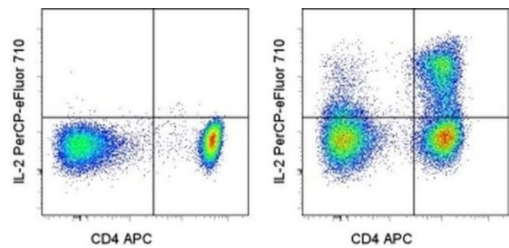
PerCP-eFluor® 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Our testing indicates that PerCP-eFluor® 710 conjugated antibodies are stable when stained samples are exposed to freshly prepared 2% formaldehyde overnight at 4°C, but please evaluate for alternative fixation protocols.

Excitation: 488 nm; Emission: 710 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For IL-2 Monoclonal Antibody (MQ1-17H12), PerCP-eFluor™ 710, eBioscience™

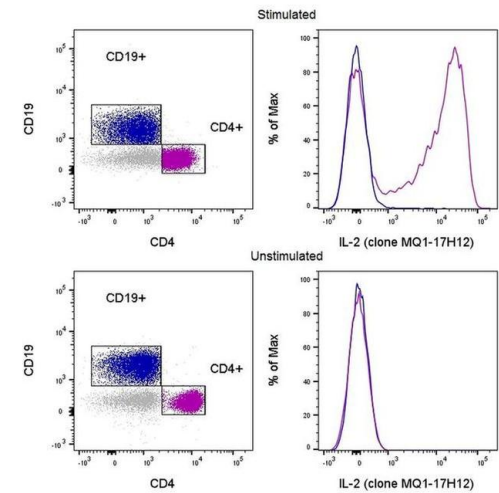


IL-2 Antibody (46-7029-42) in Flow

Normal human peripheral blood cells were unstimulated (left) or stimulated with PMA/ionomycin in the presence of Brefeldin A for 5 hours (right), then intracellularly stained with Anti-Human CD4 APC (Product # 17-0049-42) and Anti-Human IL-2 PerCP-eFluor® 710. Cells in the lymphocyte gate were used for analysis.

IL-2 Antibody (46-7029-42)

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. {TM}



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Flow Cytometry (13)

Frontiers in immunology

***Lactobacillus rhamnosus* GG-Derived Soluble Mediators Modulate Adaptive Immune Cells.**

"46-7029 was used in Flow cytometry/Cell sorting to determine the role of *Lactobacillus rhamnosus* soluble mediators in adaptive immune responses."

Authors: Ludwig IS, Broere F, Manurung S, Lambers TT, van der Zee R, van Eden W

Year
2023

Species
Human

Nature communications

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

"Published figure using IL-2 monoclonal antibody (Product # 46-7029-42) 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

Year
2022

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More applications with references on thermofisher.cn

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