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

Product Details	
Size	50 µg
Species Reactivity	Human
Published Species	Cynomolgus monkey, Non-human primate, Human, Mouse, Rhesus monkey
Host/Isotype	Rat / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	MQ1-17H12
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_468408

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications
Flow Cytometry (Flow)	Assay-Dependent	19 Publications
ELISA (ELISA)	1-4 µg/mL	2 Publications
Miscellaneous PubMed (Misc)	-	2 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: The MQ1-17H12 antibody has been reported for use as capture antibody for ELISA and for intracellular staining for flow cytometric analysis. Fluorochrome conjugated MQ1-17H12 antibody is recommended for use in intracellular staining for flow cytometry.

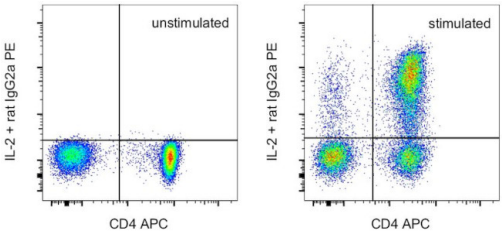
Applications Tested: The MQ1-17H12 antibody has been tested as the capture antibody in a sandwich ELISA for analysis of human Interleukin-2 (IL-2) in combination with the biotin anti-human IL-2 poly (13-7028) antibody for detection and recombinant human IL-2 (14-8029) as the standard. A suitable range of concentrations of this antibody for ELISA capture is 1-4 µg/mL. A standard curve consisting of doubling dilutions of the recombinant standard over the range of 1000 pg/mL - 8 pg /mL should be included in each ELISA plate.

Purity: Greater than 90%, as determined by SDS-PAGE.

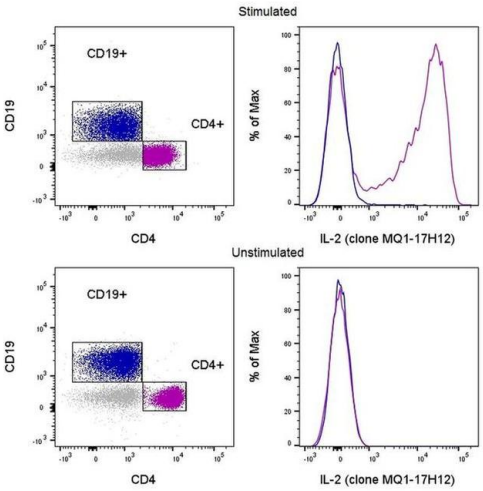
Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

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



IL-2 Antibody (14-7029-81) 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 # 00-4975-93) (right). Cells were then stained intracellularly, using the Intracellular Fixation & Permeabilization Buffer Set (Product # 88-8824-00) and protocol, with CD4 Monoclonal Antibody, APC (Product # 17-0049-42) and 0.125 µg IL-2 Monoclonal Antibody followed by IgG2a Monoclonal Antibody, PE (Product # 12-4817-82). Cells in the lymphocyte gate were used for analysis.



IL-2 Antibody (14-7029-81)
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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26 References

Immunohistochemistry (1)

Molecular cancer therapeutics

Antibody-Based Delivery of Cytokine Payloads to Carbonic Anhydrase IX Leads to Cancer Cures in Immunocompetent Tumor-Bearing Mice.

"14-7029-81 was used in Immunohistochemistry-immunofluorescence to describe the design, production, and characterization of four novel antibody-cytokine fusion proteins directed against human carbonic anhydrase IX, a highly validated marker of hypoxia that is overexpressed in clear cell renal cell carcinoma and other malignancies."

Authors: Ziffels B,Stringhini M,Probst P,Fugmann T,Sturm T,Neri D

Year
2019

Species
Mouse

Immunohistochemistry (Frozen) (2)

Oncotarget

A novel format for recombinant antibody-interleukin-2 fusion proteins exhibits superior tumor-targeting properties *in vivo*.

"14-7029-85 was used in Immunohistochemistry (Frozen) to study the in vivo tumor-homing and anti-cancer activity of antibody-interleukin 2 fusion proteins."

Authors: Ongaro T,Gouyou B,Stringhini M,Corbellari R,Neri D,Villa A

Year
2020

Species
Mouse

Dilution
1:150

Frontiers in oncology

A Novel Fully-Human Potency-Matched Dual Cytokine-Antibody Fusion Protein Targets Carbonic Anhydrase IX in Renal Cell Carcinomas.

"14-7029-85 was used in Immunohistochemistry (Frozen), Flow Cytometry to report the cloning, expression and characterization of IL2-XE114-TNFmut, a dual-cytokine biopharmaceutical featuring the sequential fusion of interleukin-2 (IL2) with the XE114 antibody in scFv format and a tumor necrosis factor mutant (TNFmut)."

Authors: De Luca R,Gouyou B,Ongaro T,Villa A,Ziffels B,Sannino A,Buttinoni G,Galeazzi S,Mazzacuva M,Neri D

Year
2020

Species
Human

Flow Cytometry (19)

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 # 14-7029-81) 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

View more Flow references on thermofisher.com

More applications with references on thermofisher.com

ELISA (2) **Misc (2)**