

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

Product Details	
Size	25 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotope	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	MQ1-17H12
Conjugate	APC
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA, 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10854572

Applications	Tested	Dilution	Published
Flow Cytometry (Flow)	✓	5 µL (0.125 µg)/test	7 Publications
Immunofluorescence (IF)	-		2 Publications

## Product Specific Information

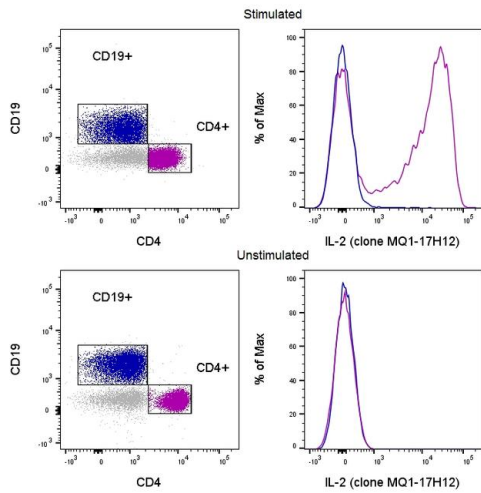
Description: The MQ1-17H12 antibody reacts with human interleukin-2 (IL-2), a 17 kDa T cell growth factor and a major immunoregulatory cytokine. The MQ1-17H12 antibody is a non-neutralizing antibody.

Applications Reported: MQ1-17H12 has been reported for use in staining of intracellular IL-2.

Applications Tested: This MQ1-17H12 antibody is tested by intracellular staining and flow cytometric analysis of activated human normal human peripheral blood cells. This product has been pre-titrated and tested intracellular staining and flow cytometric analysis of activated human 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 10<sup>5</sup> to 10<sup>8</sup> cells/test.

Excitation: 633-647 nm; Emission: 660 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.



### IL-2 Antibody (17-7029-41)

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 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.

## 9 References

### Flow Cytometry (7)

British journal of cancer

#### PD-1(+) CD8(+) T cells are exhausted in tumours and functional in draining lymph nodes of colorectal cancer patients.

"17-7029 was used in Immunofluorescence to evaluate the role of PD-1-PD-L1 pathway in CD8(+) T-cell functions in tumour-draining lymph nodes (TDLNs) and tumours of CRC patients."

Authors: Wu X,Zhang H,Xing Q,Cui J,Li J,Li Y,Tan Y,Wang S

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2014

PLoS pathogens

#### Longevity and composition of cellular immune responses following experimental Plasmodium falciparum malaria infection in humans.

"17-7029 was used in Flow cytometry/Cell sorting to study cellular immunological responses to sporozoites and asexual blood-stage malaria parasites."

Authors: Teirlinck AC,McCall MB,Roestenberg M,Scholzen A,Woestenenk R,de Mast Q,van der Ven AJ,Hermesen CC,Luty AJ,Sauerwein RW

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2011

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### Immunofluorescence (2)

British journal of cancer

#### PD-1(+) CD8(+) T cells are exhausted in tumours and functional in draining lymph nodes of colorectal cancer patients.

"17-7029 was used in Immunofluorescence to evaluate the role of PD-1-PD-L1 pathway in CD8(+) T-cell functions in tumour-draining lymph nodes (TDLNs) and tumours of CRC patients."

Authors: Wu X,Zhang H,Xing Q,Cui J,Li J,Li Y,Tan Y,Wang S

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2014

Journal of virology

#### Expansion of polyfunctional HIV-specific T cells upon stimulation with mRNA electroporated dendritic cells in the presence of immunomodulatory drugs.

"17-7029 was used in Immunofluorescence to provide new information about the effects of IMiDs on antigen-specific T cells and suggest that these drugs increase the efficacy of immune therapies for infectious diseases and cancer."

Authors: De Keersmaecker B,Allard SD,Lacor P,Schots R,Thielemans K,Aerts JL

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2012

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