

IL-10 Monoclonal Antibody (JES5-16E3), PE, eBioscience™

Product Details

| | |
|-----------------------------|----------------------------------------------------------------|
| Size | 25 Tests |
| Species Reactivity | Mouse |
| Published Species | Mouse |
| Host/Isotype | Rat / IgG2b, kappa |
| Recommended Isotype Control | Rat IgG2b kappa Isotype Control (eB149/10H5), PE, eBioscience™ |
| Class | Monoclonal |
| Type | Antibody |
| Clone | JES5-16E3 |
| Conjugate | PE |
| Excitation/Emission Max | 565/576 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_10669561 |

| Applications | Tested Dilution | Publications |
|-------------------------|----------------------|-----------------|
| Flow Cytometry (Flow) | 5 µL (0.125 µg)/test | 52 Publications |
| ELISA (ELISA) | - | 1 Publication |
| T-Cell Activation (TCA) | - | 1 Publication |

Product Specific Information

Description: The JES5-16E3 antibody reacts with mouse interleukin-10 (IL-10). Mouse IL-10 is an ~18 kDa factor also known as Cytokine Synthesis Inhibitory Factor (CSIF). In the mouse, Th2 cells, B1 cells, macrophages, and keratinocytes are the major cell subsets that produce IL-10. IL-10 inhibits synthesis of Th1 cytokines and proliferation of T cells, and acts as a costimulatory signal for mast cells, developing thymocytes and the Th2 response.

Applications Reported: The JES5-16E3 antibody has been reported for use in capture of mouse IL-10 by ELISA and ELISPOT, intracellular staining for flow cytometric analysis, IHC, and neutralization of IL-10 bioactivity.

Applications Tested: This JES5-16E3 antibody is tested by intracellular staining and flow cytometric analysis of cultured mouse splenocytes. This product has been pre-titrated and tested by intracellular staining and flow cytometric analysis of cultured mouse splenocytes. 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.

Excitation: 488-561 nm; **Emission:** 578 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

54 References

Flow Cytometry (52)

EMBO reports

Myeloid cell-specific topoisomerase 1 inhibition using DNA origami mitigates neuroinflammation.

"Published figure using IL-10 monoclonal antibody (Product # 12-7101-41) in Flow Cytometry"

Authors: Zhu K,Wang Y,Sarlus H,Geng K,Nutma E,Sun J,Kung SY,Bay C,Han J,Min JH,Benito-Cuesta I,Lund H,Amor S,Wang J,Zhang XM,Kutter C,Guerreiro-Cacais AO,Högberg B,Harris RA

Year
2022

Cell reports

ROR γ t phosphorylation protects against T cell-mediated inflammation.

"Published figure using IL-10 monoclonal antibody (Product # 12-7101-41) in Flow Cytometry"

Authors: Ma S,Patel SA,Abe Y,Chen N,Patel PR,Cho BS,Abbasi N,Zeng S,Schnabl B,Chang JT,Huang WJM

Year
2022

[View more Flow references on thermofisher.com](#)

ELISA (1)

PloS one

IL-1 promotes TGF-1 and IL-2 dependent Foxp3 expression in regulatory T cells.

"12-7101 was used in an ELISA assay to investigate the differential effects of IL-12 and IL-1 on Foxp3 expression in T cells, showing that IL-1 promotes TGF-1- and IL-2-dependent Foxp3 expression in Tregs."

Authors: Ganesh BB,Bhattacharya P,Gopisetty A,Sheng J,Vasu C,Prabhakar BS

Year
2011

Species
Mouse

T-Cell Activation (1)

Nature communications

PTEN functions as an immune suppressor and promotes immune resistance in PTEN-mutant cancer.

"12-7101-41 was used in T-Cell Activation to propose that PTEN protects tumor from T cell killing and thus PTEN is a potential target in antitumor immunotherapy."

Authors: Sun Y,Lu D,Yin Y,Song J,Liu Y,Hao W,Qi F,Zhang G,Zhang X,Liu L,Lin Z,Liang H,Zhao X,Jin Y,Yin Y

Year
2021

Species
Mouse

Dilution
1:250

More applications with references on thermofisher.com

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