

IL-4 Monoclonal Antibody (BVD6-24G2), PE-Cyanine7, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotope	Rat / IgG1, kappa
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	BVD6-24G2
Conjugate	PE-Cyanine7
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_1659721

Applications	Tested	Dilution	Published
Flow Cytometry (Flow)	✓	5 µL (0.5 µg)/test	15 Publications
In vitro Assay (IV)	-		1 Publication

Product Specific Information

Description: The BVD6-24G2 antibody reacts with mouse interleukin-4 (IL-4), a 14 kDa cytokine secreted by Th2 cells.

Applications Reported: This BVD6-24G2 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested: This BVD6-24G2 antibody is offered in 2 formats: - µg size: has been tested intracellular staining and flow cytometric analysis of restimulated mouse splenocytes cultures. This can be used at less than or equal to 1 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest. - test size: has been pre-titrated and tested intracellular staining and flow cytometric analysis of restimulated mouse splenocytes cultures. This can be used at 5 µL (0.5 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.

16 References

Flow Cytometry (15)

International journal of molecular medicine

TIM4-TIM1 interaction modulates Th2 pattern inflammation through enhancing SIRT1 expression.

"25-7042 was used in Flow cytometry/Cell sorting to demonstrate that the interaction of T-cell immunoglobulin and mucin domain (TIM)4/TIM1 promotes T helper 2-cell proliferation through enhancing silent information regulator 1 expression in mice with nasal allergic rhinitis."

Authors: Hu T,Fan X,Ma L,Liu J,Chang Y,Yang P,Qiu S,Chen T,Yang L,Liu Z

Species
Mouse

Dilution
1:200

Year
2017

Acta pharmacologica Sinica

Betulin from *Hedyotis hedyotide* ameliorates concanavalin A-induced and T cell-mediated autoimmune hepatitis in mice.

"Published figure using IL-4 monoclonal antibody (Product # 25-7042-42) in Flow Cytometry"

Authors: Zhou YQ,Weng XF,Dou R,Tan XS,Zhang TT,Fang JB,Wu XW

Species
Mouse
Not Applicable

Dilution
Not Cited
Not Cited

Year
2017

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

In vitro Assay (1)

PloS one

The acute environment, rather than T cell subset pre-commitment, regulates expression of the human T cell cytokine amphiregulin.

"25-7042 was used in in vitro experiments to collate a detailed analysis of the regulation of Amphiregulin expression by human T cell subsets."

Authors: Qi Y,Operario DJ,Georas SN,Mosmann TR

Species
Human
Mouse

Dilution
Not Cited
Not Cited

Year
2012

More applications with references on thermofisher.com

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