

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

Product Details	
Size	100 µg
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	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_469674

Applications	Tested	Dilution	Published
Flow Cytometry (Flow)	✓	1 µg/test	10 Publications
In vitro Assay (IV)	-		1 Publication
Immunocytochemistry (ICC)	-		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 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 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

**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.

## 12 References

### Flow Cytometry (10)

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 # 25-7042-82) in Flow Cytometry"

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

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2017

PloS one

#### Induced Treg Cells Augment the Th17-Mediated Intestinal Inflammatory Response in a CTLA4-Dependent Manner.

"25-7042 was used in Flow cytometry/Cell sorting to study whether Th17 and Tregs that promote and suppress inflammatory responses, respectively, work with or against each other in immune reactions, showing that cotransfer of Th17 and induced Tregs led to increased inflammation, and blockage of CTLA4 led to abrogation of this effect."

Authors: Watanabe N,Kaminuma O,Kitamura N,Hiroi T

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2016

[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

**Dilution**  
Not Cited

**Year**  
2012

### Immunocytochemistry (1)

Blood

#### Foxp3 regulatory T cells exert asymmetric control over murine helper responses by inducing Th2 cell apoptosis.

"25-7042 was used in Immunocytochemistry to demonstrate that Th2-driven diseases may be more responsive to regulatory T-cell manipulation."

Authors: Tian L,Altin JA,Makaroff LE,Franckaert D,Cook MC,Goodnow CC,Dooley J,Liston A

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2011

### More applications with references on thermofisher.com

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.

