

IL-4 Monoclonal Antibody (11B11), eBioscience™

Product Details	
Size	50 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	11B11
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_468410

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	-	40 Publications
ELISA (ELISA)	1-4 µg/mL	19 Publications
Neutralization (Neu)	-	9 Publications
Functional Assay (FN)	-	22 Publications
T-Cell Activation (TCA)	-	1 Publication
In vitro Assay (IV)	-	4 Publications
Miscellaneous PubMed (Misc)	-	1 Publication

Product Specific Information

Description: The 11B11 antibody reacts with mouse interleukin-4 (IL-4), a 14 kD cytokine. The 11B11 antibody is a neutralizing antibody. Mouse IL-4, also known as BCDF, BCGF-1 and BSF-1, is secreted by activated Th2 and natural killer T cells, and to a lesser extent by Th1 and mast cells. IL-4 is species-specific and promotes proliferation and differentiation of B cells. IL-4, in conjunction with other signals such as CD40, induces Ig isotype switching of B cells and the upregulation of surface MHC class II and CD23.

Applications Reported: The 11B11 antibody has been reported for use in ELISA capture, ELISPOT capture, and neutralization of IL-4 bioactivity.

Applications Tested: The 11B11 antibody has been tested as the capture antibody in a sandwich ELISA for analysis of mouse Interleukin-4 (IL-4) in combination with the biotin BVD6-24G2 (cat. 13-7042) antibody for detection and recombinant mouse IL-4

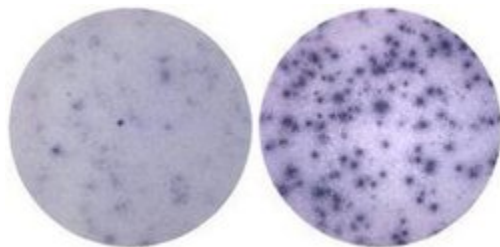
(cat. 14-8041) as the standard. A suitable range of concentrations of this antibody for ELISA capture is 1-4 µg/mL. A standard curve consisting of doubling dilutions of the recombinant standard over the range of 500 pg/mL - 4 pg/mL should be included in each ELISA plate.

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-4 Monoclonal Antibody (11B11), eBioscience™



IL-4 Antibody (14-7041-81) in ELISA

Splenocytes from 8 week old mice pre-immunized with OVA/IFA were recall-activated with OVA antigen for 36 hours in Mouse IL-4 ELISpot assay. Control well is medium alone.

[View more figures on thermofisher.com](https://www.thermofisher.com)

Immunocytochemistry (1)

Immunity

Cellular mechanisms of fatal early-onset autoimmunity in mice with the T cell-specific targeting of transforming growth factor-beta receptor.

"14-7041 was used in Immunocytochemistry to demonstrate that TGF-beta signalling in T cells is crucial to restrain fatal autoimmune processes."

Authors: Marie JC,Liggitt D,Rudensky AY

Species
Mouse

Dilution
Not Cited

Year
2006

Flow Cytometry (40)

Frontiers in immunology

Bach2 Deficiency Leads to Spontaneous Expansion of IL-4-Producing T Follicular Helper Cells and Autoimmunity.

"14-7041 was used in Flow cytometry/Cell sorting to investigate the molecular mechanisms through which the transcription factor Bach2 controls autoimmunity."

Authors: Zhang H,Hu Q,Zhang M,Yang F,Peng C,Zhang Z,Huang C

Species
Mouse

Dilution
Not Cited

Year
2020

Evidence-based complementary and alternative medicine : eCAM

Baicalin Downregulates RLRs Signaling Pathway to Control Influenza A Virus Infection and Improve the Prognosis.

"Published figure using IL-4 monoclonal antibody (Product # 14-7041-81) in Flow Cytometry"

Authors: Pang P,Zheng K,Wu S,Xu H,Deng L,Shi Y,Chen X

Species
Not Applicable

Dilution
Not Cited

Year
2020

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

ELISA (19)

Biomolecules & therapeutics

Suppressive Effect of Carnosol on Ovalbumin-Induced Allergic Asthma.

"14-7041 was used in an ELISA assay to investigate the effect of carnosol on a murine allergic asthma model."

Authors: Lee JE,Im DS

Species
Mouse

Dilution
Not Cited

Year
2021

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

More applications with references on thermofisher.com

[Neu \(9\)](#)
[FN \(22\)](#)
[TCA \(1\)](#)
[IV \(4\)](#)
[Misc \(1\)](#)

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