

# IL-4 Monoclonal Antibody (1D11)

Product Details	
Size	500 µg
Species Reactivity	Mouse
Published Species	Rat, Mouse
Host/Isotope	Rat / IgG2b
Class	Monoclonal
Type	Antibody
Clone	1D11
Conjugate	Unconjugated
Immunogen	Recombinant mouse IL-4
Form	Liquid
Concentration	1.0 mg/mL
Purification	Protein G
Storage buffer	PBS
Contains	no preservative
Storage Conditions	-20°C
RRID	AB_223530

Applications	Tested	Dilution	Published
ELISA (ELISA)	✓	Assay Dependent	25 Publications
Flow Cytometry (Flow)	-		1 Publication
Neutralization (Neu)	-	5 ug/ml	1 Publication
Immunocytochemistry (ICC)	-		1 Publication
Western Blot (WB)	✓	Assay Dependent	

## Product Specific Information

MM450C targets IL-4 in ELISA, and WB applications and shows reactivity with mouse samples. Does not bind to human IL-4.

The MM450C immunogen is recombinant mouse IL-4.

MM450C detects IL-4 which has a predicted molecular weight of approximately 14 kDa.

This product has been tested for endotoxins by limulus amoebocyte lysate (LAL) assay and contains an endotoxin concentration of less than or equal to 10 endotoxin units per milligram (EU/mg).

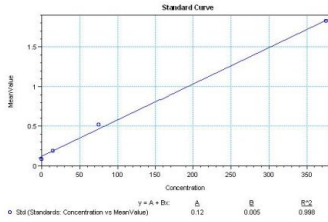
The MM450C mouse IL4 antibody (clone 1D11) has successfully been paired as the coating antibody in a sandwich ELISA with detection antibody MM450DB (biotinylated conjugate of clone 24G2). Typical dilutions for sandwich ELISA include 1-5 µg/mL for coating and 0.125 - 0.25 µg/mL for detection.

Antibody MM450C (clone 1D11) and biotinylated antibody MM450DB (clone 24G2) have successfully been used in combination

with recombinant mouse IL4 protein SMIL4 in ELISA applications.

This antibody is produced by injecting Rat IgG secreting hybridoma cells into the peritoneum of mice. The resulting ascites is collected from the mice and the antibody is purified.

## Product Images For IL-4 Monoclonal Antibody (1D11)



### IL-4 Antibody (MM450C) in ELISA

Sandwich ELISA analysis of mouse IL-4 was performed using a Mouse IL-4 Colorimetric ELISA kit (Product # EMIL4) by loading 50  $\mu$ L per well of Mouse IL-4 Recombinant Protein (Product # SMIL4) in dodecuplicate at 375, 75, 15 and 0  $\mu$ g/mL across a 2  $\mu$ g/mL rat anti-mouse IL-4 (Product # MM450C) pre-coated plate and incubating for 2 hours at 37°C. The plate was washed, then incubated with 100  $\mu$ L per well of an HRP-conjugated rat anti-mouse IL-4 antibody at a concentration of 0.4  $\mu$ g/mL for 1 hour at 37°C. Detection was performed using 1-Step Ultra TMB Substrate (Product # 34028) for 30 minutes at room temperature in the dark. The plate was stopped with 0.16M sulfuric acid. Absorbances were read on a spectrophotometer at 450-550 nm.

## 28 References

### ELISA (25)

Transplant international : official journal of the European Society for Organ Transplantation

#### Treadmill exercise induces murine cardiac allograft survival and generates regulatory T cell.

"MM450C was used in ELISA to analyze induction of murine cardiac allograft survival and regulatory T cells from treadmill exercise"

Authors: Uchiyama M, Jin X, Yin E, Shimokawa T, Niimi M

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2015

Evidence-based complementary and alternative medicine : eCAM

#### Inchingorei-san (TJ-117) and Artemisiae Capillaris Herba Induced Prolonged Survival of Fully Mismatched Cardiac Allografts and Generated Regulatory Cells in Mice.

"MM450C was used in ELISA to examine the effects of Inchingorei-san treatment on the alloimmune responses in a murine model of cardiac allograft transplantation"

Authors: Jin X, Uchiyama M, Zhang Q, Hirai T, Niimi M

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2012

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

### Flow Cytometry (1)

Journal of immunology (Baltimore, Md. : 1950)

#### Topical FK506 suppresses cytokine and costimulatory molecule expression in epidermal and local draining lymph node cells during primary skin immune responses.

"MM450C was used in flow cytometry to investigate the changes of gene expression by FK506 stimulation during primary skin immune responses"

Authors: Homey B, Assmann T, Vohr HW, Ulrich P, Lauerma AI, Ruzicka T, Lehmann P, Schuppe HC

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
1998

### Neutralization (1)

European journal of immunology

#### Interleukin-12 is produced by dendritic cells and mediates T helper 1 development as well as interferon-gamma production by T helper 1 cells.

"MM450C was used in blocking/activating experiment to investigate the role of interleukin 12 in Th1 cell function"

Authors: Heufler C, Koch F, Stanzl U, Topar G, Wysocka M, Trinchieri G, Enk A, Steinman RM, Romani N, Schuler G

**Species**  
Mouse

**Dilution**  
5 ug/ml

**Year**  
1996

### More applications with references on thermofisher.com

### ICC (1)

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