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# anti-IL-4 antibody

2 Images

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**Publications** 



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Quantity:	0.1 mg
Target:	IL-4 (IL4)
Reactivity:	Human
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This IL-4 antibody is un-conjugated
Application:	Western Blotting (WB), Blocking Antibody (Inhibition)

#### Product Datails

Product Details	
Brand:	BD Pharmingen™
Immunogen:	Purified Recombinant Human IL-4
Clone:	MP4-25D2
Isotype:	IgG1
Characteristics:	<ol> <li>Since applications vary, each investigator should titrate the reagent to obtain optimal results.</li> <li>Please refer to us for technical protocols.</li> <li>Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.</li> </ol>
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

### **Target Details**

Target:	IL-4 (IL4)
Alternative Name:	IL-4 (IL4 Products)
Background:	The MP4-25D2 antibody reacts with human interleukin-4 (IL-4). The immunogen used to
	generate the MP4-25D2 hybridoma was purified recombinant human IL-4. This is a neutralizing
	antibody. The MP4-25D2 antibody has been reported to cross react with IL-4 from rhesus
	monkeys. The use of the MP4-25D2 antibody for epitope mapping of human IL-4 has been
	described. This antibody is routinely tested as a blocking control for intracellular staining.
Pathways:	JAK-STAT Signaling, Regulation of Leukocyte Mediated Immunity, Positive Regulation of
	Immune Effector Process, Production of Molecular Mediator of Immune Response, Proton
	Transport, Activated T Cell Proliferation
Application Details	
Application Notes:	1. Blocking Control for Intracellular Staining:
	The unlabeled MP4-25D2 antibody can be used as a blocking control to demonstrate specificity
	of IL-4 staining by conjugated MP4-25D2 antibody. To perform this control, the
	fixed/permeabilized cells ( $\sim$ 1 million) can be incubated with 1-10 $\mu g$ of unlabeled MP4-25D2
	antibody (ABIN967463) for 20 minutes at 4°C, prior to staining with conjugated MP4-25D2
	antibody. The intracellular cytokine staining technique and use of blocking controls are
	described in detail by C. Prussin and D. Metcalfe.
	2. Neutralization:
	The NA/LE™ MP4-25D2 antibody is useful for neutralization of human IL-4 bioactivity. A suitable
	NA/LE $^{\rm M}$ rat IgG1 isotype control to match the MP4-25D2 antibody is the R3-34 antibody.
	3. WB: The purified MP4-25D2 antibody has been reported to be useful for Western blotting.
	Please note that this application is not routinely tested.
Restrictions:	For Research Use only

Format:	Liquid	
Concentration:	0.5 mg/mL	
Buffer:	Aqueous buffered solution containing ≤0.09 % sodium azide.	

## Handling

Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store undiluted at 4° C.

### **Publications**

#### Product cited in:

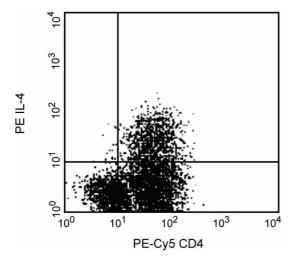
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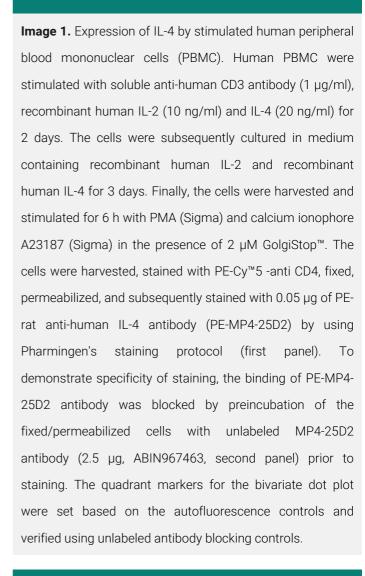
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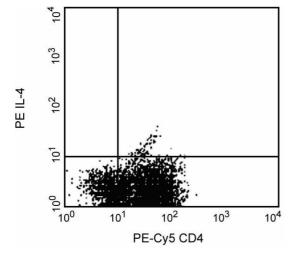
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Abrams, Roncarolo, Yssel, Andersson, Gleich, Silver: "Strategies of anti-cytokine monoclonal antibody development: immunoassay of IL-10 and IL-5 in clinical samples." in: **Immunological reviews**, Vol. 127, Issue 9-10, pp. 5-24, (1992) (PubMed).

Chrétien, Van Kimmenade, Pearce, Banchereau, Abrams: "Development of polyclonal and monoclonal antibodies for immunoassay and neutralization of human interleukin-4." in: **Journal of immunological methods**, Vol. 117, Issue 1, pp. 67-81, (1989) (PubMed).







#### **Flow Cytometry**

**Image 2.** The binding of PE-MP4-25D2 antibody was blocked by preincubation of the fixed/permeabilized cells with unlabeled MP4-25D2 antibody (2.5  $\mu$ g, ABIN967463, second panel) prior to staining.