

## Monoclonal Antibody to Interleukin-4 / IL4 - PE

<b>Alternate names:</b>	B-cell stimulatory factor 1, BSF1, Binetrakin, IL-4, Lymphocyte stimulatory factor 1, Pitrakinra
<b>Catalog No.:</b>	AM05868RP-N
<b>Quantity:</b>	100 Tests
<b>Concentration:</b>	0.1 mg/ml
<b>Background:</b>	IL4 is a pleiotropic cytokine produced by activated T cells, mast cells and basophils. It is a ligand for Interleukin 4 receptor. The Interleukin 4 receptor also binds to IL13, which may contribute to many overlapping functions of this cytokine and IL13. IL4 elicits many different biological responses, but has two dominant functions. The first is regulating differentiation of naïve CD4+ T cell to the Th2 type. Th2 cells produce IL4, IL5, IL10 and IL13, which tend to favor a humoral immune response while suppressing a cell mediated immune response controlled by Th1 cells. STAT6, a signal transducer and activator of transcription, has been shown to play a central role in mediating the immune regulatory signal of this cytokine. The second is regulating IgE and IgG1 production by B cells. Two alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported.
<b>Uniprot ID:</b>	<a href="#">P05112</a>
<b>NCBI:</b>	<a href="#">NP_000580.1</a>
<b>GeneID:</b>	<a href="#">3565</a>
<b>Host / Isotype:</b>	Mouse / IgG2a
<b>Clone:</b>	CC303
<b>Format:</b>	<b>State:</b> Lyophilised purified IgG <b>Purification:</b> Affinity chromatography on Protein G <b>Buffer System:</b> Phosphate buffered saline pH7.4 containing 0.09% Sodium Azide, 1% Bovine Serum Albumin <b>Label:</b> PE – R. Phycoerythrin (RPE) <b>Reconstitution:</b> Reconstitute with 1 ml distilled water
<b>Applications:</b>	Flow Cytometry: 1/5. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognises bovine interleukin 4. <b>Species:</b> Bovine, Dog, Pig, Sheep, Mustelid, Goat. Other species not tested.

**For research and in vitro use only. Not for diagnostic or therapeutic work.**

Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

Antibody Hotline - Technical Questions - Antibody Location Service  
Free Call: 0800-2274746 (Germany only) - [www.acris-antibodies.com](http://www.acris-antibodies.com)



- Storage:** Store the antibody undiluted at 2-8°C.  
DO NOT FREEZE!  
This product is photosensitive and should be protected from light.  
Shelf life: one year from despatch.
- Caution:** (A full Health and Safety assessment is available upon request) This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
- General Readings:**
1. Pedersen, L.G. et al. (2002) Identification of monoclonal antibodies that cross react with cytokines from different animal species. *Vet. Immunol. Immunopathol.* 88: 111 - 122.
  2. Aasted B, Bach P, Nielsen J, Lind P. Cytokine profiles in peripheral blood mononuclear cells and lymph node cells from piglets infected in utero with porcine reproductive and respiratory syndrome virus. *Clin Diagn Lab Immunol.* 2002 Nov;9(6):1229-34. PubMed PMID: 12414754.

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