

## Anti Human Interleukin-4 (IL-4) Monoclonal Mouse Antibody

<b>Code:</b>	211-44-134A	<b>Lot no.:</b>	
<b>Isotype:</b>	Mouse IgG1	<b>Exp.:</b>	1 year from date of dispatch
<b>Clone:</b>	4D9		
<b>Quantity:</b>	500 µg of purified antibody in 0.1 ml of phosphate buffered saline, pH 7.4 with 0.1% (w/v) sodium azide.		
<b>Source:</b>	Tissue culture supernatant.		
<b>Purification:</b>	Protein A affinity chromatography.		
<b>Specificity:</b>	This antibody recognizes both the recombinant and the natural form of human IL-4 (1).		

**Applications:** Immunocytochemistry (ICC): Specificity of intracellular staining of human IL-4 with clone 4D9 was demonstrated with the use of transfected CHO cells expressing this cytokine (2,3). Furthermore, clone 4D9 was successfully used for intracellular staining of mitogen stimulated, purified human T cells (5) and of gradient purified human basophils stimulated with IL-3 (3).

Neutralization: Clone 4D9 was demonstrated to neutralize the biological activity of human IL-4 by inhibition of IL-4 stimulated T cell proliferation (4). A preparation of clone 4D9 that has no preservatives or stabilizers and has a low content of endotoxin is recommended for this application (code # 211-44-534A).

Western ( Immuno ) Blotting: By spot blot and Western (immuno) blot analysis clone 4D9 was found to react equally well with native and denatured amounts of human IL-4 smaller than 10 ng (4).

- References:**
1. Jung T. et al. "Interleukin-4 and interleukin-5 are rarely co-expressed by human T cells". *Eur. J. Immunol.* **25**: 2413-2416 (1995).
  2. Mueller R. et al. "Transfected chinese hamster ovary cells as a model system for cytokine immunocytochemistry and in situ hybridisation". *Cell Biology International.* **18(1)**: 55-61(1994).
  3. Mueller R. et al. "Immunolocalization of intracellular interleukin-4 in normal peripheral blood basophils". *Eur. J. Immunol.* **24**:2935-2940 (1994).
  4. Reusch.P et al. "Neutralizing monoclonal antibodies define two different functional sites in human IL-4 ." *Eur. J. Biochem* **222** : 491-499 (1994)
  5. Andersson. U. et al " Simultaneous production of IL-2, IL-4 and IFN- $\gamma$  by activated human blood lymphocytes . *Eur. J. Immunol* **20**: 1501-1595.(1990).

**Storage:** For use within 1 month store at +4°C. For long term storage aliquot antibody into small volumes and store at -20°C. Avoid repeated freeze / thaw cycles.

**For Research Use Only. Not For Diagnostic or Therapeutic Use.**

**Conditions:** The information disclosed herein is not to be considered as a recommendation to use the above product in violation of any patents. ImmunoKontakt will not be held responsible for patent infringement or other violations that may occur with the use of our products.

**Caution:** Sodium azide (NaN<sub>3</sub>) yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive materials in plumbing.

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