Rabbit Anti-IL-4 Polyclonal: RC0018

**Intended Use:** For Research Use Only

**Description:** Interleukin-4 (IL-4), also knowns as a B-cell stimulatory factor1 (BSF1), is an immunomodulatory cytokine, which can inhibit the growth of tumor cells. The human cDNA contains a single open reading frame encoding a protein of 153 amino acids, including a putative signal peptide. IL-4 may act as an autocrine growth factor in pancreatic cancer cells and also give rise to the possibility that cancer-derived IL-4 may suppress cancer-directed immunosurveillance in vivo in addition to its growth-promoting effects, thereby facilitating pancreatic tumor growth and metastasis. The mouse and human genes and their protein products show structural and functional similarities. The human IL-4 gene, which occurs as a single copy in the haploid genome, is mapped on chromosome 5. The standard product used in this kit is recombinant human IL-4, consisting of 130 amino acids with the molecular mass of 14 KDa. Participates in at least several B-cell activation processes as well as of other cell types. It is a costimulator of DNA-synthesis. It induces the expression of class II MHC molecules on resting B-cells. It enhances both secretion and cell surface expression of IgE and IgG1. It also regulates the expression of the low affinity Fc receptor for IgE (CD23) on both lymphocytes and monocytes.

**Specifications:**
- **Clone:** Polyclonal
- **Source:** Rabbit
- **Isotype:** IgG
- **Reactivity:** Human
- **Localization:** Secreted
- **Formulation:** Antibody in PBS buffer pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
- **Storage:** Store at 2°-8°C
- **Applications:** IHC, WB

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<th>Description</th>
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<tr>
<td>IL-4 Concentrated</td>
<td>RC0018</td>
<td>1 ml</td>
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**IHC Procedure***:
- **Positive Control Tissue:** Tonsil
- **Concentrated Dilution:** 50-200
- **Pretreatment:** Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
- **Incubation Time and Temp:** 30-60 minutes @ RT
- **Detection:** Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.

**References:**

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