

**Rabbit Anti-IL-4 Polyclonal: RC0018**

**Intended Use:** For Research Use Only

**Description:** Interleukin-4 (IL-4), also known as a B-cell stimulatory factor 1 (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:**

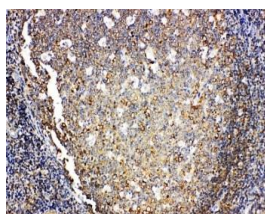
Clone: Polyclonal  
 Source: Rabbit  
 Isotype: IgG  
 Reactivity: Human  
 Localization: Secreted  
 Formulation: Antibody in PBS buffer pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)  
 Storage: Store at 2°- 8°C  
 Applications: IHC, WB  
 Package:

Description	Catalog No.	Size
IL-4 Concentrated	RC0018	1 ml

**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.



FFPE human tonsil stained with anti-IL-4 using DAB

**References:**

1. Evaluation of the probiotic properties of new Lactobacillus and Bifidobacterium strains and their in vitro effect. Presti I, et al. Appl Microbiol Biotechnol. 2015 Jul;99(13):5613-26, 2015.
2. HPV16L1-Attenuated Shigella Recombinant Vaccine Induced Strong Vaginal And Systemic Immune Responses In Guinea Pig Model. Yan X, et al. Hum Vaccin Immunother. 10(12):3491-8, 2014.
3. An Inactivated Pseudomonas Aeruginosa Medicament Inhibits Airway Allergic Inflammation And Improves Epithelial Functions. Tan Y, et al. J Physiol Sci. Jan;63(1):63-9, 2013.
4. Silencing Of Mir155 Promotes The Production Of Inflammatory Mediators In Guillain-Barr?? Syndrome In Vitro. Wang Yz, et al. Inflammation. 2013 Apr;36(2):337-45, 2013.

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