

## Anti-Interleukin-4 IL4 Antibody Picoband® Cy3 Conjugated

Catalog Number: RP1009-Cy3

### About IL4

Interleukin-4 (IL-4), also known as a B-cell stimulatory factor 1 (BSF1), is an immunomodulatory cytokine, which can inhibit the growth of tumour cells.<sup>1</sup> 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.<sup>1</sup> 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.<sup>2</sup> The standard product used in this kit is recombinant human IL-4, consisting of 130 amino acids with the molecular mass of 14KDa.

### Overview

Product Name	Anti-Interleukin-4 IL4 Antibody Picoband® Cy3 Conjugated
Reactive Species	Human
Application	Recommended applications are based on the parent unconjugated antibody (ELISA, IHC, WB). Customers may select suitable applications according to their experimental needs.
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	P05112

### Technical Details

Immunogen	E. coli-derived human IL-4 recombinant protein (Position: H25-S153).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Cy3 Excitation Wavelength: 554 nm Emission Wavelength: 568 nm

Suggested Dilutions

Optimal dilutions should be determined by end users.

## 4 Publications Citing This Product

1. PubMed ID: 23065188, Wang Yz, Feng Xg, Shi Qg, Hao Yl, Yang Y, Zhang Am, Kong Qx. Inflammation. 2013 Apr;36(2):337-45. Doi: 10.1007/S10753-012-9551-5. Silencing Of Mir155 Promotes The Production Of Inflammatory Mediators In Guillain-Barr?? Syndrome In Vitro.
2. PubMed ID: 22387551, Upregulated protein arginine methyltransferase 1 by IL-4 increases eotaxin-1 expression in airway epithelial cells and participates in antigen-induced pulmonary %u2026
3. PubMed ID: 25483698, Yan X, Wang D, Liang F, Fu L, Guo C. Hum Vaccin Immunother. 2014;10(12):3491-8. Doi: 10.4161/Hv.36084. Hpv16L1-Attenuated Shigella Recombinant Vaccine Induced Strong Vaginal And Systemic Immune Responses In Guinea Pig Model.

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