

## Anti-Interleukin-4 IL4 Antibody Picoband®

Catalog Number: PA1424

### 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®
Reactive Species	Human
Description	Boster Bio Anti-Interleukin-4 IL4 Antibody catalog # PA1424. Tested in WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P05112

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human IL-4.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.

Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human

## Anti-Interleukin-4 IL4 Antibody Picoband® (PA1424) Images



Anti-IL-4 antibody, PA1424, Western blotting  
Lane 1: Recombinant Human IL-4 Protein 10ng  
Lane 2: Recombinant Human IL-4 Protein 5ng  
Lane 3: Recombinant Human IL-4 Protein 2.5ng

## 6 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: 25202335, Yuan Z, Zhang J, Yang C. Evid Based Complement Alternat Med. 2014;2014:620359. Doi: 10.1155/2014/620359. Epub 2014 Aug 17. Ligusticum Wallichii Extract Inhibited The Expression Of Il-1?? After Ami In Rats.
3. PubMed ID: 23011634, Tan Y, Liu H, Yang H, Wang L, Qin X. J Physiol Sci. 2013 Jan;63(1):63-9. Doi: 10.1007/S12576-012-0231-X. Epub 2012 Sep 26. An Inactivated Pseudomonas Aeruginosa Medicament Inhibits Airway Allergic Inflammation And Improves Epithelial Functions.

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