

Datasheet for ABIN3042695

anti-IL-4 antibody (Middle Region)[Go to Product page](#)**1** Image**5** Publications

Overview

Quantity:	100 µg
Target:	IL-4 (IL4)
Binding Specificity:	AA 72-98, Middle Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IL-4 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Interleukin-4(IL4) detection. Tested with WB in Human.
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human IL-4(72-98aa AATVLRQFYSHHEKDTR).
Sequence:	AATVLRQFYS HHEKDTR
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Interleukin-4(IL4) detection. Tested with WB in Human. Gene Name: interleukin 4 Protein Name: Interleukin-4(IL-4)
Purification:	Immunogen affinity purified.

Target Details

Target:	IL-4 (IL4)
Alternative Name:	IL4 (IL4 Products)
Background:	<p>Interleukin-4(IL-4), also known as a B-cell stimulatory factor1(BSF1), is an immunomodulatory cytokine, which can inhibit the growth of tumour cells.1 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.1 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 5.2 The standard product used in this kit is recombinant human IL-4, consisting of 130 amino acids with the molecular mass of 14KDa.</p> <p>Synonyms: B cell growth factor 1 antibody B cell IgG differentiation factor antibody B Cell Stimulatory Factor 1 antibody B-cell stimulatory factor 1 antibody BCGF 1 antibody BCGF1 antibody Binetrakin antibody BSF 1 antibody BSF-1 antibody BSF1 antibody HCGF antibody Hodgkin's Cell Growth Factor antibody IA Inducing Factor antibody IGG1 induction factor antibody IL 4 antibody IL-4 antibody IL4 antibody IL4e12 antibody Interleukin 4 antibody Interleukin 4, isoform 1 antibody Interleukin-4 antibody Interleukin4 antibody Lymphocyte stimulatory factor 1 antibody Macrophage fusion factor antibody Mast cell growth factor 2 antibody MCGF2 antibody MFF antibody MGC79402 antibody Pitrakinra antibody T cell growth factor 2 antibody TCGF2 antibody</p>
UniProt:	P05112
Pathways:	JAK-STAT Signaling , Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process , Production of Molecular Mediator of Immune Response , Proton Transport , Activated T Cell Proliferation

Application Details

Application Notes:	<p>WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human</p> <p>Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities.</p> <p>Other applications have not been tested. Optimal dilutions should be determined by end users.</p>
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

Application Details

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Expiry Date:	12 months

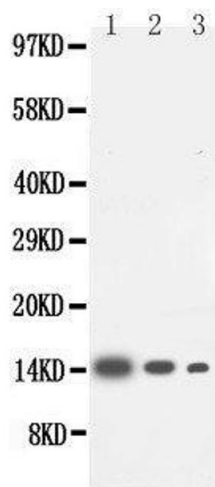
Publications

Product cited in:	<p>Presti, DOrazio, Labra, La Ferla, Mezzasalma, Bizzaro, Giardina, Michelotti, Tursi, Vassallo, Di Gennaro: "Evaluation of the probiotic properties of new Lactobacillus and Bifidobacterium strains and their in vitro effect." in: Applied microbiology and biotechnology, Vol. 99, Issue 13, pp. 5613-26, (2015) (PubMed).</p> <p>Yan, Wang, Liang, Fu, Guo: "HPV16L1-attenuated Shigella recombinant vaccine induced strong vaginal and systemic immune responses in guinea pig model." in: Human vaccines & immunotherapeutics, Vol. 10, Issue 12, pp. 3491-8, (2015) (PubMed).</p> <p>Yuan, Zhang, Yang: "Ligusticum wallichii Extract Inhibited the Expression of IL-1? after AMI in Rats." in: Evidence-based complementary and alternative medicine : eCAM, Vol. 2014, pp. 620359, (2014) (PubMed).</p>
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Wang, Feng, Shi, Hao, Yang, Zhang, Kong: "Silencing of miR155 promotes the production of inflammatory mediators in Guillain-Barré syndrome in vitro." in: **Inflammation**, Vol. 36, Issue 2, pp. 337-45, (2013) ([PubMed](#)).

Tan, Liu, Yang, Wang, Qin: "An inactivated Pseudomonas aeruginosa medicament inhibits airway allergic inflammation and improves epithelial functions." in: **The journal of physiological sciences : JPS**, Vol. 63, Issue 1, pp. 63-9, (2012) ([PubMed](#)).

Images



Western Blotting

Image 1. Anti-IL-4 antibody, 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