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Datasheet for ABIN3044141

anti-IL-4 antibody (Middle Region)

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Overview

Quantity:	100 µg
Target:	IL-4 (IL4)
Binding Specificity:	AA 72-88, Middle Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Interleukin-4(IL4) detection. Tested with WB, IHC-P in Human.
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human IL-4(72-88aa, 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, IHC-P 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: 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. 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 14KDa.

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|IL4_HUMAN antibody|II4e12 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

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: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.
Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested.

Application Details

Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

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 Na₂HPO₄, 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.

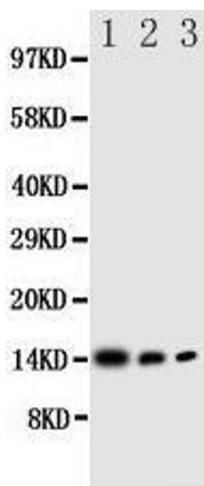
Storage: 4 °C/-20 °C

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

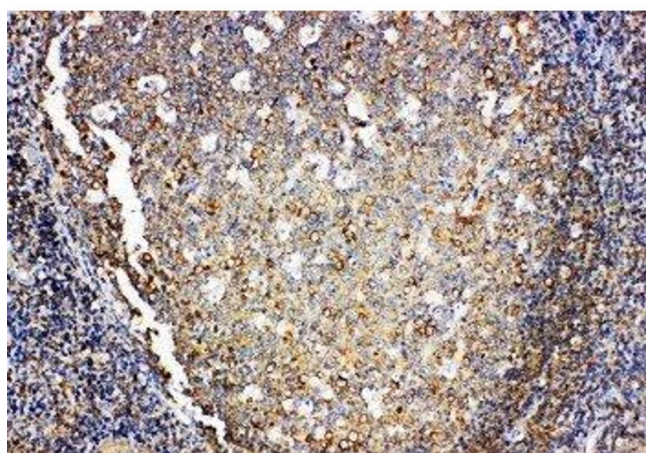
Publications

Product cited in: Whiteland, Nicholls, Shimeld, Easty, Williams, Hill: "Immunohistochemical detection of T-cell subsets and other leukocytes in paraffin-embedded rat and mouse tissues with monoclonal antibodies." in: **The journal of histochemistry and cytochemistry : official journal of the Histochemistry Society**, Vol. 43, Issue 3, pp. 313-20, (1995) ([PubMed](#)).



Western Blotting

Image 1.



Immunohistochemistry

Image 2. Anti-IL4 antibody, IHC(P) IHC(P): Human Tonsil Tissue