

## Basic Information

Product Name	Anti-IL4 Antibody
Gene Name	IL4
Source	Rabbit
Isotype	IgG
Species Reactivity	human
Tested Application	WB, ICC/IF
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Immunogen	A synthesized peptide derived from human IL4
concentration	500 ug/ml
Purification	Affinity-chromatography
Observed MW	14KD
Dilution Ratios	Western blot (WB): 1:500-2000 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:20-100

## Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

## Background Information

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 5.2. The standard product used in this kit is recombinant human IL-4, consisting of 130 amino acids with the molecular mass of 14 kDa.

## Selected Validation Data

Western blot analysis of IL4 expression in human tonsil lysate.

