

## **IL-4 Polyclonal Antibody**

Catalog No: YT2335

**Reactivity:** Human; Mouse

**Applications:** WB;FCM;ELISA

Target: IL-4

Fields: >>Cytokine-cytokine receptor interaction;>>PI3K-Akt signaling pathway;>>JAK-

STAT signaling pathway;>>Hematopoietic cell lineage;>>IL-17 signaling pathway;>>Th1 and Th2 cell differentiation;>>Th17 cell differentiation;>>T cell receptor signaling pathway;>>Fc epsilon RI signaling pathway;>>Intestinal immune network for IgA production;>>Leishmaniasis;>>Pathways in cancer;>>Asthma;>>Autoimmune thyroid disease;>>Inflammatory bowel

disease;>>Allograft rejection

Gene Name: IL4

Protein Name: Interleukin-4

Human Gene Id: 3565

**Human Swiss Prot** 

No:

**Mouse Swiss Prot** 

No:

**Immunogen:** Synthesized peptide derived from the C-terminal region of human IL-4.

**Specificity:** IL-4 Polyclonal Antibody detects endogenous levels of IL-4 protein.

**Formulation :** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

P05112

P07750

**Dilution:** WB 1:500-2000;Flow Cyt 1:50-200;ELISA 1:5000-20000

**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.



Concentration: 1 mg/ml

**Storage Stability:** -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 18kD

**Cell Pathway:** Cytokine-cytokine receptor interaction; Jak\_STAT; Hematopoietic cell

lineage;T\_Cell\_Receptor;Fc epsilon RI;Intestinal immune network for IgA

production; Asthma; Autoimmune thyroid disease; Allograft reject

**Background:** The protein encoded by this gene is a pleiotropic cytokine produced by activated

T cells. This cytokine is a ligand for interleukin 4 receptor. The interleukin 4 receptor also binds to IL13, which may contribute to many overlapping functions

of this cytokine and IL13. STAT6, a signal transducer and activator of transcription, has been shown to play a central role in mediating the immune

regulatory signal of this cytokine. This gene, IL3, IL5, IL13, and CSF2 form a cytokine gene cluster on chromosome 5q, with this gene particularly close to IL13. This gene, IL13 and IL5 are found to be regulated coordinately by several long-range regulatory elements in an over 120 kilobase range on the chromosome.

Two alternatively spliced transcript variants of this gene encoding distinct

isoforms have been reported. [provided by RefSeq, Jul 2008],

**Function:** disease:Genetic variations in IL4 may be a cause of susceptibility to ischemic

stroke [MIM:601367]; also known as cerebrovascular accident or cerebral infarction. A stroke is an acute neurologic event leading to death of neural tissue of the brain and resulting in loss of motor, sensory and/or cognitive function. Ischemic strokes, resulting from vascular occlusion, is considered to be a highly complex disease consisting of a group of heterogeneous disorders with multiple genetic and environmental risk factors.,function:Participates in at least several B-cell activation processes as well as of other cell types. It is a costimulator of DNA-synthesis. It induces the expression of class II MHC molecules on resting B-cells. It enhances both secretion and cell surface expression of IgE and IgG1. It also regulates the expression of the low affinity Fc receptor for IgE (CD23) on both

lymphocytes

Subcellular Location :

Secreted.

**Expression:** 

Blood, PCR rescued clones,

Tag:

orthogonal

Sort:

8512

No4:

1

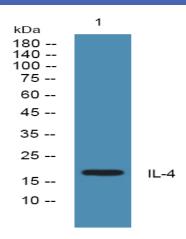
Host:

Rabbit



Modifications: Unmodified

## **Products Images**



Western blot analysis of lysates from A431 cells, primary antibody was diluted at 1:1000, 4° over night