

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 :	P05112
Mouse Swiss Prot No :	P07750
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
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

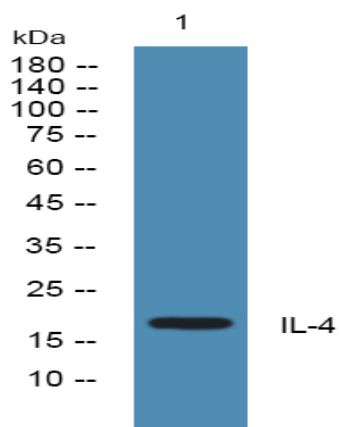
Background : The protein encoded by this gene is a pleiotropic cytokine produced by activated T cells. This cytokine is a ligand for interleukin 4 receptor. The interleukin 4 receptor also binds to IL13, which may contribute to many overlapping functions of this cytokine and IL13. STAT6, a signal transducer 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,

Products Images



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