10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-IL-10 Antibody
Catalog # ABO10678

Specification

Anti-IL-10 Antibody - Product Information

Application	**WB**
Primary Accession	P22301
Host	**Rabbit**
Reactivity	**Human**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Interleukin-10(IL10) detection. Tested with WB in Human.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-IL-10 Antibody - Additional Information

Gene ID 3586

Other Names
Interleukin-10, IL-10, Cytokine synthesis inhibitory factor, CSIF, IL10

Calculated MW
20517 MW KDa

Application Details
Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization
Secreted.

Tissue Specificity
Produced by a variety of cell lines, including T-cells, macrophages, mast cells and other cell types.

Protein Name
Interleukin-10(IL-10)

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence at the N-terminus of human IL10(46-60aa DAFSRVKTFFQMKDQ).

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage

At -20˚C for one year. After r˚Constitution, 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.

Sequence Similarities
Belongs to the IL-10 family.

Anti-IL-10 Antibody - Protein Information

Name IL10

Function
Major immune regulatory cytokine that acts on many cells of the immune system where it has profound anti-inflammatory functions, limiting excessive tissue disruption caused by inflammation. Mechanistically, IL10 binds to its heterotetrameric receptor comprising IL10RA and IL10RB leading to JAK1 and STAT2-mediated phosphorylation of STAT3 (PubMed:16982608). In turn, STAT3 translocates to the nucleus where it drives expression of anti-inflammatory mediators (PubMed:18025162). Targets antigen-presenting cells (APCs) such as macrophages and monocytes and inhibits their release of pro- inflammatory cytokines including granulocyte-macrophage colony- stimulating factor /GM-CSF, granulocyte colony-stimulating factor/G- CSF, IL-1 alpha, IL-1 beta, IL-6, IL-8 and TNF-alpha (PubMed:11564774, PubMed:1940799, PubMed:7512027). Interferes also with antigen presentation by reducing the expression of MHC-class II and co- stimulatory molecules, thereby inhibiting their ability to induce T cell activation (PubMed:8144879). In addition, controls the inflammatory response of macrophages by reprogramming essential metabolic pathways including mTOR signaling (By similarity).

Cellular Location
Secreted.

Tissue Location
Produced by a variety of cell lines, including T- cells, macrophages, mast cells and other cell types

Anti-IL-10 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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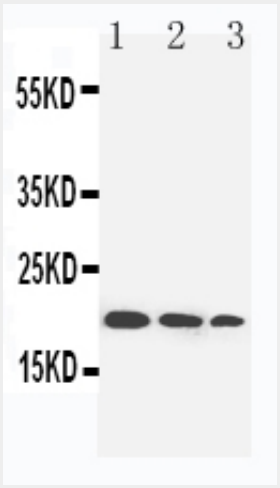
Anti-IL-10 Antibody - Images



Anti-IL-10 antibody, ABO10678, Western blottingLane 1: Recombinant Human IL-10 Protein 10ngLane 2: Recombinant Human IL-10 Protein 5ng Lane 3: Recombinant Human IL-10 Protein 2.5ng

Anti-IL-10 Antibody - Background

Interleukin-10(IL-10 or IL10), also known as human cytokine synthesis inhibitory factor(CSIF), is an anti-inflammatory cytokine. In humans IL-10 is encoded by the IL10 gene. It is capable of inhibiting synthesis of pro-inflammatory cytokines like IFN-gamma, IL-2, IL-3, TNFalpha and GM-CSF made by cells such as macrophages and regulatory T-cells.IL-10 also displays potent abilities to suppress the antigen presentation capacity of antigen presenting cells. Kim et al.(1992) showed that the mouse Il 10 gene contains 5 exons and spans about 5.2 kb of genomic DNA. Eskdale et al.(1997) mapped the IL10 gene to the junction between 1q31 and 1q32.