10320 Camino Santa Fe, Suite A
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Tel: 858.875.1900 Fax: 858.875.1999

Anti-IL-10 Antibody
Catalog # ABO12700

Specification

Anti-IL-10 Antibody - Product Information

Application	**WB, E**
Primary Accession	P18893
Host	**Rabbit**
Reactivity	**Mouse**
Clonality	**Polyclonal**
Format	**Lyophilized**

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

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

Anti-IL-10 Antibody - Additional Information

Gene ID 16153

Other Names
Interleukin-10, IL-10, Cytokine synthesis inhibitory factor, CSIF, Il10, Il-10

Calculated MW
20641 MW KDa

Application Details
ELISA , 0.1-0.5 µg/ml, Mouse, -
Western blot, 0.1-0.5 µg/ml, Mouse

Subcellular Localization
Secreted.

Protein Name
Interleukin-10(IL-10)

Contents
Each vial contains 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3. Carrier free (No BSA) form available in stock. If you want this antibody carrier free please specify Carrier Free" or "No BSA" in your order note. "

Immunogen
E. coli-derived mouse IL-10 recombinant protein(Position: S19-S178).

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.**

Anti-IL-10 Antibody - Protein Information

Name Il10

Synonyms Il-10

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. In turn, STAT3 translocates to the nucleus where it drives expression of anti-inflammatory mediators. 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. Also interferes with antigen presentation by reducing the expression of MHC- class II and co-stimulatory molecules, thereby inhibiting their ability to induce T cell activation (By similarity). In addition, controls the inflammatory response of macrophages by reprogramming essential metabolic pathways including mTOR signaling (By similarity) (PubMed:28473584).

Cellular Location
Secreted {ECO:0000250|UniProtKB:P22301}.

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

Anti-IL-10 Antibody - Images

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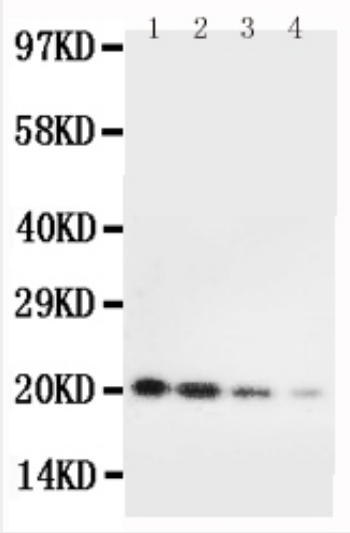

Anti-mouse IL-10 antibody, ABO12700, Western blottingLane 1: Recombinant Mouse IL-10 Protein 10ngLane 2: Recombinant Mouse IL-10 Protein 5ngLane 3: Recombinant Mouse IL-10 Protein 2

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.