

**IL10 Antibody**  
**Rabbit mAb**  
**Catalog # AP91136****Specification**

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**IL10 Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	<a href="#">P22301</a>
Clonality	Monoclonal
<b>Other Names</b>	
IL10; CSIF; GVHDS; IL10A; TGIF; Interleukin-10;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	20517 Da

**IL10 Antibody - Additional Information**

Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human IL10
Description	Interleukin-10 (IL-10) is an anti-inflammatory cytokine that is produced by T cells, NK cells, and macrophages. IL-10 initiates signal transduction by binding to a cell surface receptor complex consisting of IL-10 RI and IL-10 RII, leading to the activation of Jak1 and Tyk2 and phosphorylation of Stat3.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

**IL10 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:<a href="http://www.uniprot.org/citations/16982608" target="\_blank">16982608</a>). In turn, STAT3 translocates to the nucleus where it drives expression of anti-inflammatory mediators (PubMed:<a href="http://www.uniprot.org/citations/18025162" target="\_blank">18025162</a>). 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:<a href="http://www.uniprot.org/citations/11564774" target="\_blank">11564774</a>, PubMed:<a href="http://www.uniprot.org/citations/1940799" target="\_blank">1940799</a>, PubMed:<a href="http://www.uniprot.org/citations/7512027" target="\_blank">7512027</a>). 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:<a href="http://www.uniprot.org/citations/8144879" target="\_blank">8144879</a>). In addition, controls the inflammatory response of macrophages by reprogramming essential metabolic pathways including mTOR signaling (By similarity).

#### **Cellular Location**

Secreted.

#### **Tissue Location**

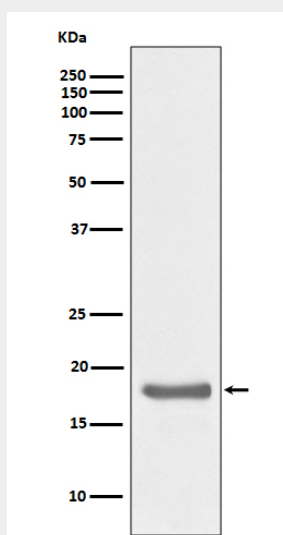
Produced by a variety of cell lines, including T- cells, macrophages, mast cells and other cell types

### **IL10 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 Cytometry](#)
- [Cell Culture](#)

### **IL10 Antibody - Images**



Western blot analysis of IL10 expression in Ramos cell lysate.