

**Anti-IL-10 Reference Antibody (BT-063)**  
**Recombinant Antibody**  
**Catalog # APR10630****Specification**

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**Anti-IL-10 Reference Antibody (BT-063) - Product Information**

Application	FC, E, FTA
Primary Accession	<a href="#">P22301</a>
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	145.74 KDa

**Anti-IL-10 Reference Antibody (BT-063) - Additional Information****Target/Specificity**  
IL-10**Endotoxin**  
< 0.001EU/ µg, determined by LAL method.**Conjugation**  
Unconjugated**Expression system**  
CHO Cell**Format**  
Purified monoclonal antibody supplied in PBS, pH6.0, without preservative. This antibody is purified through a protein A column.**Anti-IL-10 Reference Antibody (BT-063) - 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](http://www.uniprot.org/citations/16982608)). In turn, STAT3 translocates to the nucleus where it drives expression of anti-inflammatory mediators (PubMed: [18025162](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/11564774), PubMed: [1940799](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

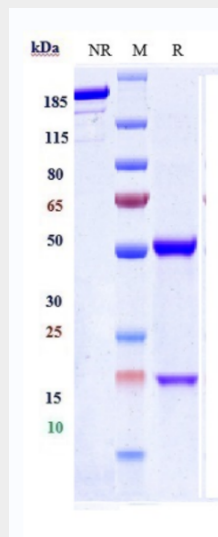
Produced by a variety of cell lines, including T- cells, macrophages, mast cells and other cell types

### Anti-IL-10 Reference Antibody (BT-063) - Protocols

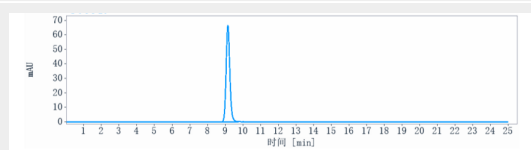
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Anti-IL-10 Reference Antibody (BT-063) - Images



Anti-IL-10 Reference Antibody (BT-063) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%



The purity of Anti-IL-10 Reference Antibody (BT-063) is more than 100% ,determined by

SEC-HPLC.