

For Research Use Only

# rat IL-10 Recombinant antibody

Catalog Number: 82793-16-RR



## Basic Information

<b>Catalog Number:</b> 82793-16-RR	<b>GenBank Accession Number:</b> NM_012854	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 300 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 25325	<b>CloneNo.:</b> 1A4
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P29456	<b>Recommended Dilutions:</b> WB 1:1000-1:4000
<b>Isotype:</b> IgG	<b>Full Name:</b> interleukin 10	
	<b>Calculated MW:</b> 20kd	
	<b>Observed MW:</b> 30 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : Recombinant protein,
<b>Species Specificity:</b> rat, mouse	

## Background Information

The human IL10 gene is 4.7 kb in size and is located on the long arm of chromosome 1. It contains five exons. Biologically functional IL-10 exists in the form of a 36 kDa homodimer composed of two non-covalently bonded mono-mers each with 160 amino acids length. IL-10 is an anti-inflammatory cytokine, produced by T helper (Th) cells, macrophages, monocytes, and B cells, that plays a crucial role in preventing inflammatory and autoimmune pathologies. It downregulates the expression of Th1 cytokines, MHC class II antigens, and co-stimulatory molecules on macrophages. It also enhances B cell survival, proliferation, and antibody production. IL-10 can block NF-κB activity, and is involved in the regulation of the JAK-STAT signaling pathway. IL-10, along with its receptors, describes an important role in pathogenesis of various diseases, including infectious, inflammatory, autoimmune diseases. IL-10 mutations are associated with an increased susceptibility to HIV-1 infection and rheumatoid arthritis.

## Storage

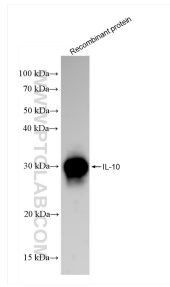
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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## Selected Validation Data



Recombinant protein were subjected to SDS PAGE followed by western blot with 82793-16-RR (IL-10 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.