



# Anti-Rat IL-10

20150223ML



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>104-P07</b>
Size:	100 µg
Lot. No.:	According to product label

**Preparation:** Produced from sera of rabbits pre-immunized with highly pure (>98%) recombinant rat IL-10. Anti-rat IL-10 specific antibody was purified by affinity chromatography employing immobilized rat IL-10 matrix.

## Target Background

<b>Synonyms (Target):</b>	IL10; IL10X
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Interleukin 10 (IL-10), initially designated cytokine synthesis inhibitory factor (CSIF), was originally identified as a product of mouse T helper (Th) 2 clones that inhibited cytokine production by Th1 clones. The human ortholog of mouse IL-10 was subsequently cloned by cross-hybridization. Human and mouse IL-10 are 81% identical at the nucleotide and amino acid level. IL-10 is the prototypic member of the IL-10 cytokine family, including IL-10, IL-19, IL-20, IL-22 (IL-TIF), IL-24 and IL-26. A number of viruses, including Epstein-Barr virus (EBV) and human cytomegalovirus (HCMV), also encode viral members of the IL-10 family. Human IL-10 has cross-species activity and is active on mouse cells. Mouse and rat IL-10 is species-specific and does not act on human cells.

### Database References Target

<b>Protein RefSeq:</b>	NP_036986
<b>Uniprot ID:</b>	P29456
<b>mRNA RefSeq:</b>	NM_012854

## Product Specifications

<b>Species reactivity</b>	Rat
<b>Clone/Ab feature</b>	Rabbit IgG
<b>Cross reactivity</b>	Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal Antibody
<b>Purification</b>	Antigen-affinity purified
<b>Immunogen</b>	Recombinant rat IL-10
<b>Formulation</b>	lyophilized from PBS
<b>Reconstitution buffer</b>	water

**Reconstitution:** Reconstitute the antibody in sterile water to a concentration of 0.1 - 1.0 mg/ml.

**Stability:** The lyophilized antibody is stable for at least 2 years from date of receipt at -20°C. The reconstituted antibody is stable for at least two weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C.



**AVOID REPEATED FREEZE AND THAW CYCLES!**

## Applications

### ELISA:

**Indirect:** To detect Rat IL-10 by indirect ELISA (using 100 µl/well antibody solution) a concentration of 0.5 - 2.0 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with compatible secondary reagents, allows the detection of at least 0.2 - 0.4 ng/well of recombinant Rat IL-10.

**Sandwich:** To detect Rat IL-10 by sandwich ELISA (using 100 µl/well antibody solution) a concentration of 0.5 - 2.0 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with PeproTech's Biotinylated Anti-Rat IL-10 (500-P139Bt) as a detection antibody, allows the detection of at least 0.2 - 0.4 ng/well of recombinant Rat IL-10.

**Western Blot:** To detect Rat IL-10 by Western Blot analysis this antibody can be used at a concentration of 0.1-0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant Rat IL-10 is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions.

**NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!**