



# Anti-Human IL-10

20190502DS



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

<b>Cat.-no.:</b>	<b>102-P40</b>
Size:	100 µg
Lot. No.:	According to product label

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

## Target Background

<b>Synonyms (Target):</b>	IL10; CSIF; TGIF; GVHDS; IL-10; IL10A
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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 IL-10 is species-specific and does not act on human cells.

### Database References Target

<b>Protein RefSeq:</b>	NP_000563.1
<b>Uniprot ID:</b>	P22301
<b>mRNA RefSeq:</b>	NM_000572

## Product Specifications

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

**Reconstitution:** Centrifuge vial prior to opening. 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 5 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

**Immunohistochemistry:** This antibody stained formalin-fixed, paraffin-embedded sections of human pancreas adenocarcinoma tissue. The recommended concentration is 5.0 µg/ml with an overnight incubation at 4°C. An HRP-labeled polymer detection system was used with an alcohol-soluble AEC chromogen. Heat induced antigen retrieval with a pH 6.0 sodium citrate buffer is recommended. Optimal concentrations and conditions may vary.

**Neutralization:** To yield one-half maximal inhibition [ND<sub>50</sub>] of the biological activity of human IL-10 (1.0 ng/ml), a concentration of 1.2-1.8 pg/ml of this antibody is required.

**Western Blot:** To detect hIL-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 human 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!**