

## Anti-Interleukin-10 IL10 Antibody Picoband®

Catalog Number: RP1014

### About IL10

Interleukin-10 (IL-10 or IL10), also known as human cytokine synthesis inhibitory factor (CSIF), is an anti-inflammatory cytokine. In humans IL-10 is encoded by the IL10 gene. It is capable of inhibiting synthesis of pro-inflammatory cytokines like IFN-gamma, IL-2, IL-3, TNFalpha and GM-CSF made by cells such as macrophages and regulatory T-cells. IL-10 also displays potent abilities to suppress the antigen presentation capacity of antigen presenting cells. Kim et al. (1992) showed that the mouse IL 10 gene contains 5 exons and spans about 5.2 kb of genomic DNA. Eskdale et al. (1997) mapped the IL10 gene to the junction between 1q31 and 1q32.

### Overview

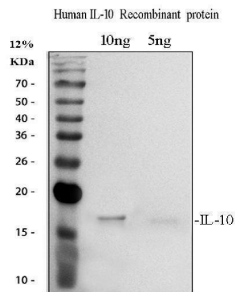
|                      |                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-Interleukin-10 IL10 Antibody Picoband®                                                                                                                                                                                                                                                                                                                                                                              |
| Reactive Species     | Human                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Description          | Boster Bio Anti-Interleukin-10 IL10 Antibody catalog # RP1014. Tested in ELISA, IHC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance. |
| Application          | ELISA, IHC, WB                                                                                                                                                                                                                                                                                                                                                                                                           |
| Clonality            | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                               |
| Formulation          | Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                                                                                                                                                                                                                                             |
| Storage Instructions | Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                    |
| Host                 | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Uniprot ID           | P22301                                                                                                                                                                                                                                                                                                                                                                                                                   |

### Technical Details

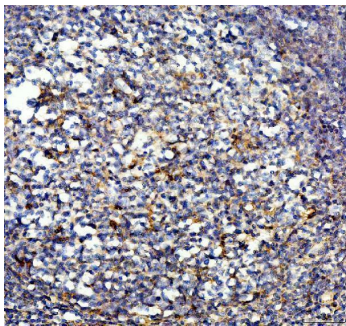
|                               |                                                                                                                                                                                  |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen                     | E. coli-derived human IL-10 recombinant protein (Position: S19-N178).                                                                                                            |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P). |
| Cross Reactivity              | No cross-reactivity with other proteins                                                                                                                                          |
| Isotype                       | Rabbit IgG                                                                                                                                                                       |
| Form                          | Lyophilized                                                                                                                                                                      |
| Concentration                 | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.                                                                                                        |

|                     |                                                                                                                                  |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Purification        | Immunogen affinity purified.                                                                                                     |
| Suggested Dilutions | Western blot, 0.1-0.5ug/ml, Human<br>Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Human<br>ELISA, 0.1-0.5ug/ml, - |

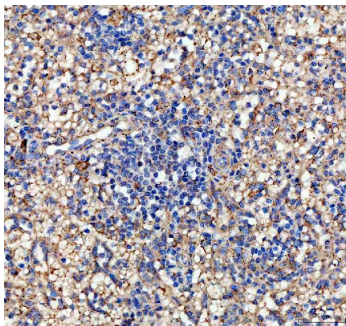
## Anti-Interleukin-10 IL10 Antibody Picoband® (RP1014) Images



Western blot analysis of IL10 using anti-IL10 antibody (RP1014). Electrophoresis was performed on a 12% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. Lane 1: recombinant human IL10 protein 10 ng, Lane 2: recombinant human IL10 protein 5 ng. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-IL10 antigen affinity purified polyclonal antibody (RP1014) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054) at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for IL10 at approximately 17 kDa.



IHC analysis of IL10 using anti-IL10 antibody (RP1014). IL10 was detected in a paraffin-embedded section of human appendix tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-IL10 Antibody (RP1014) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of IL10 using anti-IL10 antibody (RP1014). IL10 was detected in a paraffin-embedded section of human spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-IL10 Antibody (RP1014) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

## 14 Publications Citing This Product

1. PubMed ID: 10.1371/journal.pone.0165589, Women with Recurrent Miscarriage Have Decreased Expression of 25-Hydroxyvitamin D3-1alpha-Hydroxylase by the Fetal-Maternal Interface
2. PubMed ID: 10.1016/j.fertnstert.2008.02.164, Expression of interleukin-10 in patients with adenomyosis

3. PubMed ID: 10.1007/s11596-016-1644-1, Foxp3 expression in CD4 + CD25 + Foxp3 + regulatory T cells promotes development of colorectal cancer by inhibiting tumor immunity

Visit [bosterbio.com/anti-human-il-10-antibody-rp1014-boster.html](http://bosterbio.com/anti-human-il-10-antibody-rp1014-boster.html) to see all 14 publications.

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Anti-Interleukin-10 IL10 Antibody

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