

## IL10 antibody

Catalog No: #38392

Package Size: #38392-1 50ul #38392-2 100ul

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

## Description

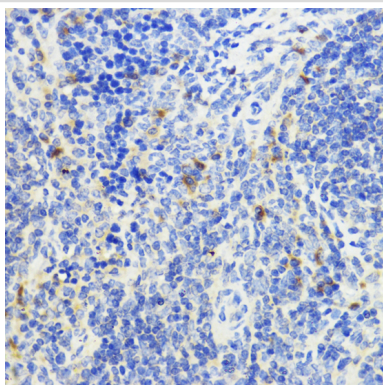
|                       |                                                                                                                                                              |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name          | IL10 antibody                                                                                                                                                |
| Host Species          | Rabbit                                                                                                                                                       |
| Clonality             | Polyclonal                                                                                                                                                   |
| Purification          | Antibodies were purified by affinity purification using immunogen.                                                                                           |
| Applications          | WB,IHC                                                                                                                                                       |
| Species Reactivity    | Human;Mouse;Rat                                                                                                                                              |
| Specificity           | The antibody detects endogenous level of total IL10 protein.                                                                                                 |
| Immunogen Type        | Recombinant Protein                                                                                                                                          |
| Immunogen Description | Recombinant protein of human IL10.                                                                                                                           |
| Conjugates            | Unconjugated                                                                                                                                                 |
| Target Name           | IL10                                                                                                                                                         |
| Other Names           | IL10; CSIF; GVHDS; IL-10; IL10A; TGIF; Interleukin-10; Cytokine synthesis inhibitory factor;                                                                 |
| Accession No.         | Swiss-Prot#: P22301NCBI Gene ID: 3586                                                                                                                        |
| SDS-PAGE MW           | 19kd                                                                                                                                                         |
| Concentration         | 1.0mg/ml                                                                                                                                                     |
| Formulation           | Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Storage               | Store at -20°C                                                                                                                                               |

## Application Details

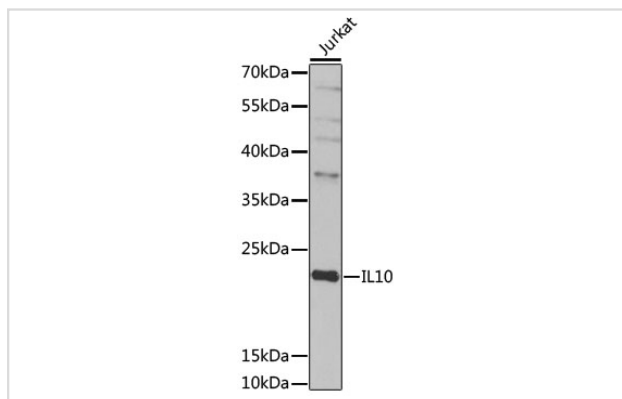
WB□1:500 - 1:2000

IHC□1:50 - 1:100

## Images



Immunohistochemistry of paraffin-embedded mouse spleen using IL10 antibody at dilution of 1:200 (40x lens).



Western blot analysis of extracts of Jurkat cells, using IL10 antibody at 1:1000 dilution.

## Background

IL-10 is an anti-inflammatory cytokine that is produced by T cells, NK cells and macrophages (1,2). IL-10 initiates signal transduction by binding to a cell surface receptor complex consisting of IL-10 RI and IL-10 RII (1). Binding of IL-10 leads to the activation of Jak1 and Tyk2, which phosphorylates Stat-3 (1,3). The anti-inflammatory activity of IL-10 is due to its ability to block signaling through other cytokine receptors, notably IFN $\gamma$  receptor, by upregulating expression of SOCS-1 (1,3). In addition, IL-10 promotes T cell tolerance by inhibiting tyrosine phosphorylation of CD28 (4,5). IL-10 is an important negative regulator of the immune response, which allows for maintenance of pregnancy (1). In contrast, increased IL-10 levels contribute to persistent *Leishmania major* infections (6).

## Published Papers

el at., TAM Infiltration Differences in "Tumor-First" and "ZHENG-First" Models and the Underlying Inflammatory Molecular Mechanism in Pancreatic Cancer. In Integr Cancer Ther. On 2018 Sep by Wang FJ, Wang P et al.. PMID: 29681184, , (2018)

[PMID:29681184](#)

el at., Inhibition of airway remodeling and inflammation by isoforskolol in PDGF-induced rat ASMCs and OVA-induced rat asthma model. In Biomed Pharmacother on 2017 Nov by Xin Liang, Jingjing Wang, et al.. PMID: 28850927, , (2017)

[PMID:28850927](#)

el at., Peptide KLF14-P1 secreted from mesenchymal stem cells protects against bronchopulmonary dysplasia both in vivo and in vitro, , (2022)

[PMID:](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.