

## IL10

**Reactivity:**Human Mouse Rat

**Tested applications:**WB IHC

**Recommended Dilution:**WB 1:500 - 1:2000 IHC 1:50 - 1:100

**Calculated MW:**19kDa

**Observed MW:**Refer to Figures

**Immunogen:**

Recombinant protein of human IL10

**Storage Buffer:**

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Concentration:**

b

**Synonym:**

IL10; CSIF; GVHDS; IL-10; IL10A; TGIF; Interleukin-10; Cytokine synthesis inhibitory factor;

**Catalog #:**A2171

**Antibody Type:**

Polyclonal Antibody

**Species:**Rabbit

**Gene ID:**3586

**Isotype:**IgG

**Swiss Prot:**P22301

**Purity:**Affinity purification

For research use only.

**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 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).

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