

IL2

Reactivity:Human

Tested applications:WB IHC

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

Calculated MW:18kDa

Observed MW:Refer to Figures

Immunogen:

Recombinant protein of human IL2

Storage Buffer:

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

Concentration:

b

Synonym:

IL2;IL-2;TCGF;lymphokine ;

Catalog #:A0302

Antibody Type:

Polyclonal Antibody

Species:Rabbit

Gene ID:3558

Isotype:IgG

Swiss Prot:P60568

Purity:Affinity purification

For research use only.

Background:

IL-2 is a T cell stimulatory cytokine best known for inducing T cell proliferation and NK cell proliferation and activation (1,2). IL-2 also promotes peripheral development of Treg cells (4, 5). Conversely, IL-2 is involved in activation induced cell death (AICD) that is observed post T cell expansion by increasing levels of Fas on CD4+ T cells (3). The effects of IL-2 are mediated through a trimeric receptor complex consisting of IL-2R α , IL-2R β and the common gamma chain, γ c (1,2). IL-2 R binds exclusively to IL-2 with low affinity and increases binding affinity of the whole receptor complex including IL-2R α and γ c subunits. IL-2R β is also used by IL-15 (1,2). The common γ c is used by other cytokines including IL-4, IL-7, IL-9, IL-15, and IL-21 (1,2). Binding of IL-2 initiates signaling cascades involving Jak1, Jak3, Stat5 and the PI3K/Akt pathways (1,2).

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