

Anti-IL-2 Antibody
Rabbit polyclonal antibody to IL-2
Catalog # AP59927

Specification

Anti-IL-2 Antibody - Product Information

| | |
|-------------------|------------------------|
| Application | WB |
| Primary Accession | P60568 |
| Other Accession | P04351 |
| Reactivity | Human, Mouse, Rat |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 17628 |

Anti-IL-2 Antibody - Additional Information

Gene ID 3558

Other Names

Interleukin-2; IL-2; T-cell growth factor; TCGF; Aldesleukin

Target/Specificity

Recognizes endogenous levels of IL-2 protein.

Dilution

WB~~WB (1/500 - 1/1000)

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Anti-IL-2 Antibody - Protein Information

Name IL2

Function

Cytokine produced by activated CD4-positive helper T-cells and to a lesser extent activated CD8-positive T-cells and natural killer (NK) cells that plays pivotal roles in the immune response and tolerance (PubMed: [6438535](http://www.uniprot.org/citations/6438535)). Binds to a receptor complex composed of either the high-affinity trimeric IL-2R (IL2RA/CD25, IL2RB/CD122 and IL2RG/CD132) or the low-affinity dimeric IL-2R (IL2RB and IL2RG) (PubMed: [16293754](http://www.uniprot.org/citations/16293754), PubMed: [16477002](http://www.uniprot.org/citations/16477002)). Interaction with the receptor leads to oligomerization and conformation changes in the IL-2R subunits resulting in downstream signaling starting with

phosphorylation of JAK1 and JAK3 (PubMed:7973659). In turn, JAK1 and JAK3 phosphorylate the receptor to form a docking site leading to the phosphorylation of several substrates including STAT5 (PubMed:8580378). This process leads to activation of several pathways including STAT, phosphoinositide-3- kinase/PI3K and mitogen-activated protein kinase/MAPK pathways (PubMed:25142963). Functions as a T-cell growth factor and can increase NK-cell cytolytic activity as well (PubMed:6608729). Promotes strong proliferation of activated B-cells and subsequently immunoglobulin production (PubMed:6438535). Plays a pivotal role in regulating the adaptive immune system by controlling the survival and proliferation of regulatory T-cells, which are required for the maintenance of immune tolerance. Moreover, participates in the differentiation and homeostasis of effector T-cell subsets, including Th1, Th2, Th17 as well as memory CD8-positive T-cells.

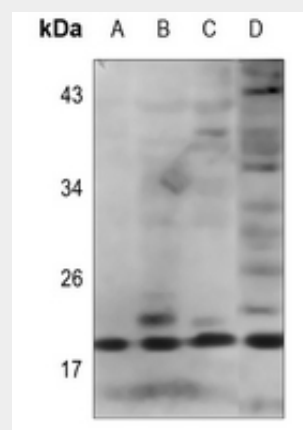
Cellular Location
Secreted.

Anti-IL-2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-IL-2 Antibody - Images



Western blot analysis of IL-2 expression in HEK293T (A), Hela (B), H446 (C), mouse liver (D) whole cell lysates.

Anti-IL-2 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human IL-2. The exact sequence is proprietary.