

IL-2 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10848**Specification**

IL-2 Antibody - Product Information

Application	WB
Primary Accession	P17108
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	17633

IL-2 Antibody - Additional Information**Gene ID** 116562

Positive Control	Recombinant rat IL-2
Application & Usage	Western blot analysis (0.5-4 µg/ml). However, the optimal conditions should be determined individually. Recombinant human IL-2 can be used as a positive control.

Other Names

IL-2, IL2, IL 2, Interleukin-2, Interleukin 2, interleukin2

Target/Specificity

IL-2

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (0.5 mg/ml) affinity purified rabbit anti-rat IL-2 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5%BSA and 0.01% thimerosal.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

IL-2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

IL-2 Antibody - Protein Information

Name IL2

Synonyms IL-2

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. 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). 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. In turn, JAK1 and JAK3 phosphorylate the receptor to form a docking site leading to the phosphorylation of several substrates including STAT5. This process leads to activation of several pathways including STAT, phosphoinositide-3-kinase/PI3K and mitogen-activated protein kinase/MAPK pathways. Functions as a T-cell growth factor and can increase NK-cell cytolytic activity as well. Promotes strong proliferation of activated B-cells and subsequently immunoglobulin production. 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.

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](#)

IL-2 Antibody - Images

IL-2 Antibody - Background

IL-2 is a potent immuno-modulator, which mediates a wide range of immune and inflammatory responses. Human IL-2 is a 15.5 kDa protein containing 134 amino acid residues.