10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

IL-7 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10854

Specification

IL-7 Antibody - Product Information

Application	**WB**
Primary Accession	P13232
Reactivity	**Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**20187**

IL-7 Antibody - Additional Information

Gene ID 3574

Positive Control	**Recombinant rat IL-7**
Application & Usage	**1) WB: Use 0.1-0.2 µg/ml. The detection limit for recombinant human IL-7 is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions.** **2) ELISA: Use 0.5 - 2.0 µg/ml (100 µl/well antibody solution)** **3) Neutralization: To yield one-half maximal inhibition [ND50] of the biological activity of Human IL-7 (1.0 ng/ml), a concentration of 0.04 - 0.06 µg/ml of this antibody is required.**

Other Names
IL-7, IL7, IL 7, Interluekin-7, Interluekin 7, interluekin

Target/Specificity
IL-7

Antibody Form
Liquid

Appearance
Colorless liquid

Formulation
100 µg (0.5 mg/ml) affinity purified rabbit anti-rat IL-7 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 5mM EDTA and 0.01% thimerosal.

Handling
The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions

Precautions
IL-7 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

IL-7 Antibody - Protein Information

Name IL7

Function
Hematopoietic cytokine that plays an essential role in the development, expansion, and survival of naive and memory T-cells and B- cells thereby regulating the number of mature lymphocytes and maintaining lymphoid homeostasis (PubMed:7527823, PubMed:25870237). Mechanistically, exerts its biological effects through a receptor composed of IL7RA subunit and the cytokine receptor common subunit gamma/CSF2RG (PubMed:8128231). Binding to the receptor leads to activation of various kinases including JAK1 or JAK3 depending on the cell type and subsequently propagation of signals through activation of several downstream signaling pathways including the PI3K/Akt/mTOR or the JAK-STAT5 (PubMed:18523275, PubMed:20974963).

Cellular Location
Secreted.

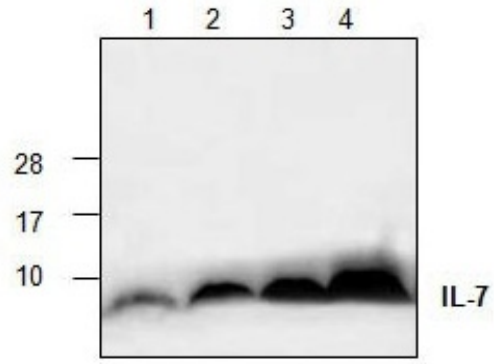
IL-7 Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

IL-7 Antibody - Images

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



To detect Human IL-7 by sandwich ELISA (using 100 µl/well antibody solution) a concentration of 0.5 - 2.0 µg/ml of this antibody is required. This antibody allows the detection of at least 0.2 - 0.4 ng/well of recombinant Human IL-7.

IL-7 Antibody - Background

IL-7 is a hematopoietic growth factor which affects primarily early B and T cells. Produced by thymic stromal cells, spleen cells and keratinocytes, IL-7 can also co-stimulate the proliferation of mature T cells in combination with other factors such as Con A and IL-2. Human and murine IL-7 is cross-species reactive.