

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, Interleukin-7, Interleukin 7, interleukin

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:25870237, PubMed:7527823). 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

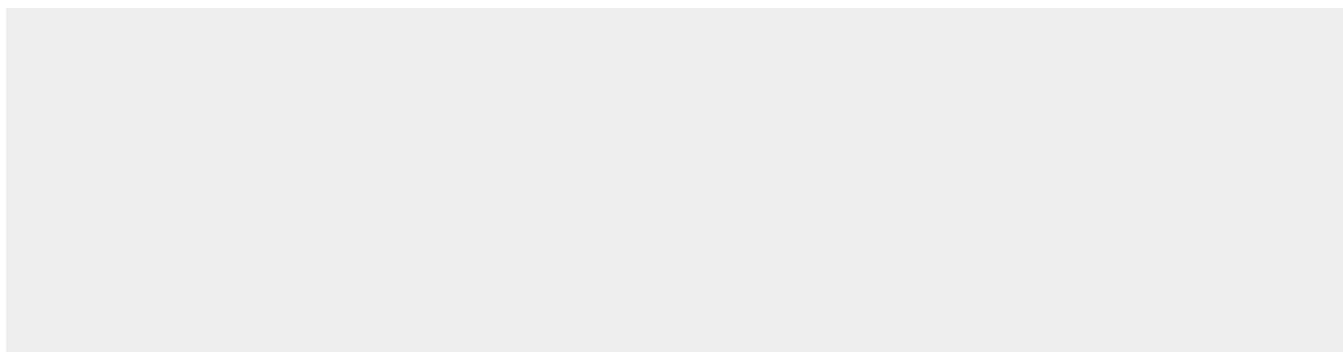
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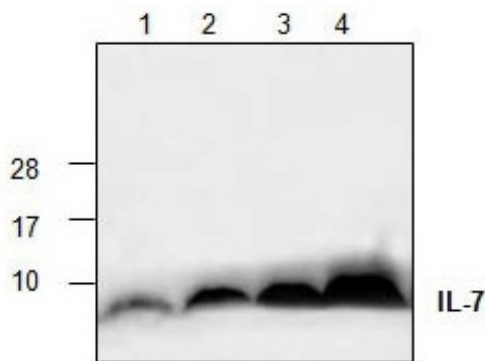
IL-7 Antibody - Protocols

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

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

IL-7 Antibody - Images





To detect Human IL-7 by sandwich ELISA (using 100 μ l/well antibody solution) a concentration of 0.5 - 2.0 μ g/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.