

**Anti-IL-7 Antibody**  
Catalog # ABO12208**Specification**

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**Anti-IL-7 Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | <b>WB</b>              |
| Primary Accession | <a href="#">P13232</a> |
| Host              | <b>Rabbit</b>          |
| Reactivity        | <b>Human</b>           |
| Clonality         | <b>Polyclonal</b>      |
| Format            | <b>Lyophilized</b>     |

**Description**

Rabbit IgG polyclonal antibody for Interleukin-7(IL7) detection. Tested with WB, ELISA in Human.<br>

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-IL-7 Antibody - Additional Information**

**Gene ID** 3574

**Other Names**

Interleukin-7, IL-7, IL7

**Calculated MW**

20187 MW KDa

**Application Details**

Western blot, 0.1-0.5 µg/ml, Human, -<br>ELISA , 0.1-0.5 µg/ml, Human<br>

**Subcellular Localization**

Secreted.

**Protein Name**

Interleukin-7

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>.

**Immunogen**

E. coli-derived human IL7 recombinant protein (Position: D26-H177). Human IL7 shares 56.4% and 57% amino acid (aa) sequence identity with mouse and rat IL7, respectively.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

## Storage

**At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time.Avoid repeated freezing and thawing.**

## Sequence Similarities

Belongs to the IL-7/IL-9 family.

## Anti-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:<a href="http://www.uniprot.org/citations/25870237" target="\_blank">25870237</a>, PubMed:<a href="http://www.uniprot.org/citations/7527823" target="\_blank">7527823</a>). Mechanistically, exerts its biological effects through a receptor composed of IL7RA subunit and the cytokine receptor common subunit gamma/CSF2RG (PubMed:<a href="http://www.uniprot.org/citations/8128231" target="\_blank">8128231</a>). 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:<a href="http://www.uniprot.org/citations/18523275" target="\_blank">18523275</a>, PubMed:<a href="http://www.uniprot.org/citations/20974963" target="\_blank">20974963</a>).

### Cellular Location

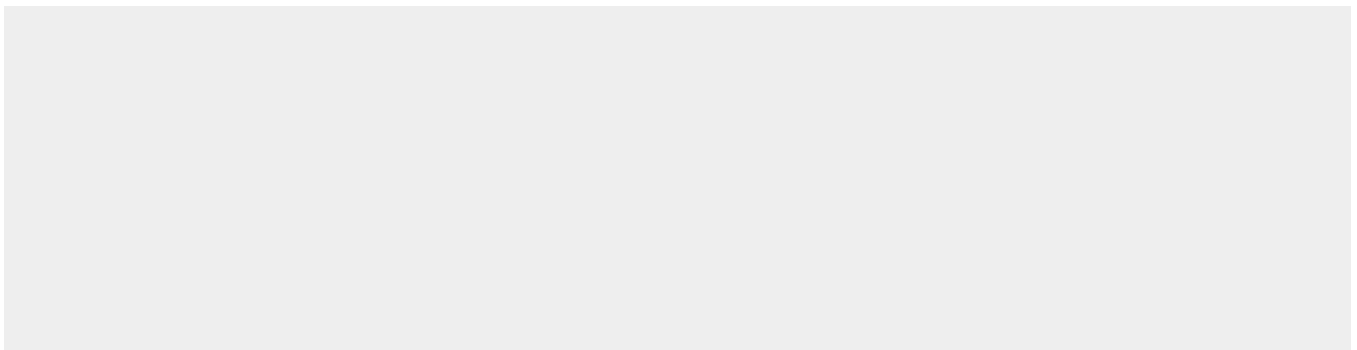
Secreted.

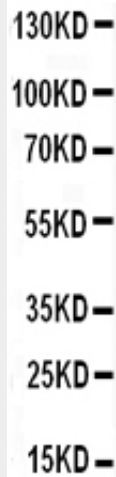
## Anti-IL-7 Antibody - Protocols

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](#)

## Anti-IL-7 Antibody - Images





130KD -  
100KD -  
70KD -  
55KD -  
35KD -  
25KD -  
15KD -

Anti- IL7 Picoband antibody, ABO12208, Western blotting All lanes: Anti IL7 (ABO12208) at 0.5ug/ml WB: K562 Whole Cell Lysate at 40ug Predicted bind size: 20KD Observed bind size: 75KD

### **Anti-IL-7 Antibody - Background**

IL-7, Interleukin 7, is a protein that in humans is encoded by the IL-7 gene. IL-7 a hematopoietic growth factor secreted by stromal cells in the red marrow and thymus. It is also produced by keratinocytes, dendritic cells, hepatocytes, neurons, and epithelial cells but is not produced by lymphocytes. By the combination of approaches, IL-7 is located on 8q12-q13. IL-7 is critical for early T-cell development and homeostasis of naive and memory CD8-positive T cells. It signals through the IL-7 receptor complex, which consists of the IL7R-alpha chain and the common IL2R-gamma chain is critical for early T-cell development and homeostasis of naive and memory CD8 -positive T cells. It signals through the IL-7 receptor complex, which consists of the IL7R-alpha chain and the common IL2R-gamma chain.