

# IL-7 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51968

## Product Information

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Application	WB
Primary Accession	<a href="#">P13232</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	20187

## Additional Information

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Gene ID	3574
Other Names	Interleukin-7, IL-7, IL7
Dilution	WB~~1:1000
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

## Protein Information

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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="#">25870237</a> , PubMed: <a href="#">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="#">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="#">18523275</a> , PubMed: <a href="#">20974963</a> ).
Cellular Location	Secreted.

## Background

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Hematopoietic growth factor capable of stimulating the proliferation of lymphoid progenitors. It is important for proliferation during certain stages of B-cell maturation.

## References

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Goodwin R.G.,et al.Proc. Natl. Acad. Sci. U.S.A. 86:302-306(1989).

Lupton S.D.,et al.J. Immunol. 144:3592-3601(1990).

Sameshima E.,et al.Submitted (FEB-2003) to the EMBL/GenBank/DDBJ databases.

Livingston R.J.,et al.Submitted (OCT-2006) to the EMBL/GenBank/DDBJ databases.

Nusbaum C.,et al.Nature 439:331-335(2006).

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