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

Anti-IL-7 Antibody

Catalog # AP51968

Product Information

Application	WB
Primary Accession	P13232
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	20187

Additional Information

Gene ID	3574
Other Names	Interleukin-7; IL-7
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human IL-7. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

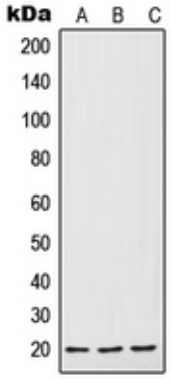
Protein Information

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	Secreted.

References

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).

Images



Western blot analysis of IL-7 expression in HepG2 (A), Raw264.7 (B), rat kidney (C) whole cell lysates. (Predicted band size: 20 kD; Observed band size: 20 kD)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.