

## Datasheet: AHP283B

<b>Description:</b>	RABBIT ANTI HUMAN INTERLEUKIN-7:Biotin
<b>Specificity:</b>	IL-7
<b>Format:</b>	Biotin
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	50 µg

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			0.15 - 0.30ug/ml
Immunoprecipitation			▪	
Western Blotting	▪			0.1 - 0.2ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG conjugated to Biotin - lyophilised
<b>Reconstitution</b>	Reconstitute with 0.5ml sterile PBS containing 0.1% Bovine Serum Albumin. Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For long term storage the addition of 0.09% sodium azide is recommended.
<b>Antiserum Preparation</b>	Antisera to human IL-7 were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	None present
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1mg/ml after reconstitution.
<b>Immunogen</b>	Recombinant human IL-7 ( <a href="#">PHP046</a> ).

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**External Database****Links****UniProt:**

[P13232](#)   [Related reagents](#)

**Entrez Gene:**

[3574](#)   IL7   [Related reagents](#)

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**Specificity**

**Rabbit anti Human Interleukin-7 antibody** recognizes human interleukin-7. IL-7 is a 152 amino acid glycoprotein and pleiotropic haematopoietic growth factor, secreted by thymic, splenic and bone marrow stromal/epithelial cells, keratinocytes and follicular dendritic cells. Originally termed pre-B cell factor, due to its involvement in the development of early B cells, IL-7 has since been shown to be mitogenic for early T cells and can also co-stimulate the proliferation of mature T cells in the presence of IL-2 and Concanavalin A. IL-7 signals through a transmembrane receptor consisting of the IL-7Ra chain (CD127) and common cytokine gamma chain, triggering a number of non-receptor tyrosine kinase signalling pathways.

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**ELISA**

Rabbit anti Human IL-7 (biotin conjugate) may be used in a direct ELISA or as the detection reagent in a sandwich ELISA with [recombinant human IL-7](#) as the standard and [Rabbit anti Human IL-7 \(purified\)](#) as the capture reagent.

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**References**

1. Lupton, S.D. *et al.* (1990) Characterization of the human and murine IL-7 genes. [J Immunol. 144 \(9\): 3592-601.](#)
  2. Fry, T.J. & Mackall, C.L. (2002) Interleukin-7: from bench to clinic. [Blood. 99 \(11\): 3892-904.](#)
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**Storage**

Prior to reconstitution store at +4°C.  
After reconstitution store at -20°C.  
Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Shelf Life**

6 months from date of reconstitution.

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**Health And Safety Information**

Material Safety Datasheet documentation #10162 available at:  
10162: <https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf>

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**Regulatory**

For research purposes only

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