

## Datasheet: AHP283B

**BATCH NUMBER 144678**

<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.

#### Target Species

Human

#### Product Form

Purified IgG conjugated to Biotin - lyophilized

#### Reconstitution

Reconstitute with 0.5 ml 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.

#### Antiserum Preparation

Antisera to human IL-7 were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.

#### Buffer Solution

Phosphate buffered saline

<b>Preservative Stabilisers</b>	None present
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml after reconstitution
<b>Immunogen</b>	Recombinant human IL-7 ( <a href="#">PHP046</a> ).
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P13232</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">3574</a>    IL7    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_2233607
<b>Specificity</b>	<p><b>Rabbit anti Human Interleukin-7 antibody</b> 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 Concavalin 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.</p>
<b>ELISA</b>	Rabbit anti Human IL-7 (biotin conjugate) may be used in a direct ELISA or as the detection reagent in a sandwich ELISA with <a href="#">recombinant human IL-7</a> as the standard and <a href="#">Rabbit anti Human IL-7 (purified)</a> as the capture reagent.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Lupton, S.D. <i>et al.</i> (1990) Characterization of the human and murine IL-7 genes. <a href="#">J Immunol. 144 (9): 3592-601.</a></li> <li>2. Fry, T.J. &amp; Mackall, C.L. (2002) Interleukin-7: from bench to clinic. <a href="#">Blood. 99 (11): 3892-904.</a></li> </ol>
<b>Storage</b>	<p>Prior to reconstitution store at -20°C.  After reconstitution store at -20°C.</p> <p>This product should be stored undiluted. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Guarantee</b>	6 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10162 available at: <a href="https://www.bio-rad-antibodies.com/SDS/AHP283B">https://www.bio-rad-antibodies.com/SDS/AHP283B</a>

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**Regulatory**

For research purposes only

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