

## Datasheet: AHP283B

**BATCH NUMBER 163906**

|                      |  |
|----------------------|--|
| <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><br/> <a href="#">P13232</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <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.<br/> 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>                      | 12 months from date of despatch  |
| <b>Health And Safety Information</b>  | Material Safety Datasheet documentation #10294 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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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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