

## Datasheet: 1012308

|                      |                                     |
|----------------------|-------------------------------------|
| <b>Description:</b>  | RAT ANTI HUMAN INTERLEUKIN-7:Biotin |
| <b>Specificity:</b>  | IL-7                                |
| <b>Format:</b>       | Biotin                              |
| <b>Product Type:</b> | Monoclonal Antibody                 |
| <b>Clone:</b>        | BVD10-11C10                         |
| <b>Isotype:</b>      | IgG2a                               |
| <b>Quantity:</b>     | 0.5 mg                              |

## 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 |
|-------|-----|----|----------------|--------------------|
| ELISA | ■   |    |                |                    |

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 - liquid  |
| <b>Buffer Solution</b>                | Phosphate buffered saline   |
| <b>Preservative Stabilisers</b>       | 0.09% Sodium azide  |
| <b>Approx. Protein Concentrations</b> | 0.5 mg/ml   |
| <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> |

### Specificity

**Rat anti Human Interleukin-7 antibody, clone BVD10-11C10** recognizes human interleukin 7 (IL-7), also known as Lymphopoietin 1 or pre-B cell factor. IL-7 is a 177 amino acid haematopoietic growth factor stimulating primarily early B and T lymphocytes. IL-7 is required for development of T-cells in the thymus ([Plum \*et al.\* 1996](#)) and absence of the IL-7 receptor  $\alpha$  chain (CD127) leads to a severe combined immunodeficiency condition through the lack of T-cell production ([Roifman \*et al.\*](#)

[2000](#)). IL-7 is also important post-thymically for homeostasis of naive T-cell populations and generation and survival of CD4+ memory T-cells ([Kondrack et al. 2003](#)).

IL-7 deficiency or deficient function is also noted in immunodeficiency diseases including rheumatoid arthritis ([Leonard 2005](#)), chronic colitis ([Totsuka et al. 2007](#)), multiple sclerosis through CD127 ([Svejgaard 2008](#)) and diabetes ([Li et al. 2011](#)).

Rat anti Human Interleukin-7 antibody, clone BVD10-11C10 in biotinylated format has been used successfully in the development of a sensitive ELISA assay as a detection reagent for human IL-7. It has been shown to recognize both native and recombinant human IL-7, in conjunction with clone [BVD10-40F6](#) as a capture reagent.

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|--------------------------------------|--|
| <b>ELISA</b>                         | This product may be used in a direct ELISA or as a detection reagent in a sandwich ELISA together with <a href="#">1012201</a> as the capture reagent.   |
| <b>Storage</b>                       | +4°C, -20°C if preferred   |
| <b>Shelf Life</b>                    | Please see label for expiry date.  |
| <b>Health And Safety Information</b> | Material Safety Datasheet documentation available at:<br>Material Safety Datasheet Documentation #10040 available at:<br><a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a> |
| <b>Regulatory</b>                    | For research purposes only   |

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## Related Products

### Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:Biotin \(MCA6005B\)](#)

**North & South America** Tel: +1 800 265 7376  
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