

Datasheet: 1012201

**BATCH NUMBER 157198**

<b>Description:</b>	RAT ANTI HUMAN INTERLEUKIN-7
<b>Specificity:</b>	IL-7
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	BVD10-40F6
<b>Isotype:</b>	IgG1
<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 - liquid
<b>Buffer Solution</b>	Borate buffered saline
<b>Preservative Stabilisers</b>	None present
<b>Approx. Protein Concentrations</b>	0.5 mg/ml

### External Database Links

#### UniProt:

[P13232](#)

[Related reagents](#)

#### Entrez Gene:

[3574](#)

IL7

[Related reagents](#)

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<b>RRID</b>	AB_2125814
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<b>Specificity</b>	<p><b>Rat anti Human Interleukin-7 antibody, clone BVD10-40F6</b> 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 (<a href="#">Plum et al. 1996</a>) and absence of the IL-7 receptor <math>\alpha</math> chain (CD127) leads to a severe combined immunodeficiency condition through the lack of T-cell production (<a href="#">Roifman et al. 2000</a>). IL-7 is also important post-thymically for homeostasis of naive T-cell populations and generation and survival of CD4+ memory T-cells (<a href="#">Kondrack et al. 2003</a>).</p>
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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 BVD10-40F6 has been used successfully in the development of a sensitive ELISA assay as a capture reagent for human IL-7.

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<b>Storage</b>	<p>Store at -20°C only.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>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.</p>
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<b>Guarantee</b>	Guaranteed until date of expiry. Please see product label.
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<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10123 available at: <a href="https://www.bio-rad-antibodies.com/SDS/1012201">https://www.bio-rad-antibodies.com/SDS/1012201</a></p> <p>10123</p>
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	<a href="#">DyLight®800</a>
Rabbit Anti Rat IgG (STAR17...)	<a href="#">FITC</a>
Goat Anti Rat IgG (STAR72...)	<a href="#">HRP</a>
Goat Anti Rat IgG (STAR69...)	<a href="#">FITC</a>
Goat Anti Rat IgG (STAR73...)	<a href="#">RPE</a>
Rabbit Anti Rat IgG (STAR21...)	<a href="#">HRP</a>
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	<a href="#">DyLight®550</a> , <a href="#">DyLight®650</a> , <a href="#">DyLight®800</a>
Goat Anti Rat IgG (STAR131...)	<a href="#">Alk. Phos.</a> , <a href="#">Biotin</a>

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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)  
'M350064:190307'

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