

Datasheet: 1012201

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| Description: | RAT ANTI HUMAN INTERLEUKIN-7 |
| Specificity: | IL-7 |
| Format: | Purified |
| Product Type: | Monoclonal Antibody |
| Clone: | BVD10-40F6 |
| Isotype: | IgG1 |
| Quantity: | 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.

| | 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.

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| Target Species | Human |
| Product Form | Purified IgG - liquid |
| Buffer Solution | Borate buffered saline |
| Preservative Stabilisers | None present |
| Approx. Protein Concentrations | 0.5 mg/ml |
| External Database Links | <p>UniProt: P13232 Related reagents</p> <p>Entrez Gene: 3574 IL7 Related reagents</p> |
| RRID | AB_2125814 |

Specificity

Rat anti Human Interleukin-7 antibody, clone BVD10-40F6 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 α 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 BVD10-40F6 has been used successfully in the development of a sensitive ELISA assay as a capture reagent for human IL-7.

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| Storage | Store at -20°C only. 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. |
| Guarantee | Guaranteed until date of expiry. Please see product label. |
| Health And Safety Information | Material Safety Datasheet documentation #10123 available at: 10123: https://www.bio-rad-antibodies.com/uploads/MSDS/10123.pdf |
| Regulatory | For research purposes only |

Related Products

Recommended Secondary Antibodies

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| Rabbit Anti Rat IgG (STAR17...) | FITC |
| Goat Anti Rat IgG (STAR69...) | FITC |
| Goat Anti Rat IgG (STAR131...) | Alk. Phos. , Biotin |
| Goat Anti Rat IgG (STAR73...) | RPE |
| Rabbit Anti Rat IgG (STAR21...) | HRP |
| Goat Anti Rat IgG (STAR72...) | HRP |
| Rabbit Anti Rat IgG (STAR16...) | DyLight®800 |
| Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...) | DyLight®800 |

Recommended Negative Controls

[RAT IgG1 NEGATIVE CONTROL \(MCA6004GA\)](#)

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|----------------------------------|---|------------------|---|---------------|---|
| North & South America | Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com | Worldwide | Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com | Europe | Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com |
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