

Datasheet: 1012201

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.

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

UniProt:
[P13232](#) [Related reagents](#)

Entrez Gene:
[3574](#) IL7 [Related reagents](#)

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.

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.
Shelf Life	Please see label for expiry date.
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

Rabbit Anti Rat IgG (STAR16...)	DyLight®800
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight®649 , DyLight®800
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin
Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR72...)	HRP

Recommended Negative Controls

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

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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