

Datasheet: 1012201

BATCH NUMBER 171028

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
Preparation	Antibody purified from tissue culture supernatant
Buffer Solution	Borate buffered saline
Preservative Stabilisers	None present
Approx. Protein Concentrations	0.5 mg/ml

External Database Links

UniProt:

[P13232](https://www.uniprot.org/uniprot/P13232)

[Related reagents](#)

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

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.

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 for 12 months from the date of despatch or until the date of expiry, whichever comes first. Please see label for expiry date.

Health And Safety Information Material Safety Datasheet documentation #10123 available at: <https://www.bio-rad-antibodies.com/SDS/1012201>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (STAR131...)	Alk. Phos., Biotin
Goat Anti Rat IgG (STAR72...)	HRP
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight@550 , DyLight@650 , DyLight@800
Rabbit Anti Rat IgG (STAR21...)	HRP
Rabbit Anti Rat IgG (STAR16...)	DyLight@800

Recommended Negative Controls

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

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M410366:221028'

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