

Datasheet: TZA0158GA

BATCH NUMBER 64749186

Description:	MOUSE ANTI HUMAN INTERLEUKIN-6
Specificity:	IL-6
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	rC01/1E8
Isotype:	IgG1
Quantity:	0.1 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
Flow Cytometry	▪			

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 recombinant IgG containing a SpyTag at the C-terminus of the antibody heavy chain – liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Source	CHO cells
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml

Immunogen Recombinant IL-6 (Val 30-Met 212) expressed by *E.coli*

External Database

Links

UniProt:

[P05231](#)

[Related reagents](#)

Entrez Gene:

[3569](#)

IL6

[Related reagents](#)

Synonyms

IFNB2

Specificity

Mouse anti Human Interleukin-6 antibody, clone rC01/1E8, is a recombinant monoclonal antibody that recognizes Interleukin-6 (IL-6), also known as B cell stimulatory factor 2 (BSF2).

IL-6 is a multifunctional cytokine composed of four alpha helices, containing various glycosylation sites and two disulfide bonds. It is expressed by numerous cell types including B lymphocytes, T lymphocytes, macrophages and dendritic cells. IL-6 secretion is stimulated during inflammation in response to tissue injury or infection. IL-6 signaling involves binding of IL-6 to either the membrane bound (classical pathway) or soluble (trans-signaling pathway) IL-6 receptor (IL-6R, CD126). IL-6/IL-6R further forms a complex with glycoprotein 130 (CD130), activating signal transduction, for example by the JAK/STAT3 pathway. IL-6 has diverse roles, including promoting B cell differentiation into plasma cells and stimulating IgG production, triggering the production of acute phase reactants by the liver, controlling lymphocyte trafficking and regulating differentiation of monocytes into macrophages.

IL-6 dysregulation is involved in the pathogenesis of several autoimmune diseases. Therapeutic modulation of IL-6 has resulted in the approval of a number of treatments for autoimmune disorders such as rheumatoid arthritis, juvenile idiopathic arthritis and cytokine release syndrome.

Flow Cytometry

Use 5µl of the suggested working dilution to label 0.5×10^6 cells in 100µl. Best practices suggest a 5 min centrifugation at 6,000g prior to sample application.

Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee

12 months from date of despatch

Acknowledgements

This product and/or its use is covered by claims of U.S. patents, and/or pending U.S. and non-U.S. patent applications owned by or under license to Bio-Rad Laboratories, Inc. See bio-rad.com/en-us/trademarks for details.

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
<https://www.bio-rad-antibodies.com/SDS/TZA0158GA>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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
'M451015:260622'

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