

## Datasheet: MCA6405

<b>Description:</b>	HUMAN ANTI INTERLEUKIN-1 BETA (CANAKINUMAB BIOSIMILAR)
<b>Specificity:</b>	IL-1 BETA
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD52287ia
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.2 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>	Human IgG1 antibody selected from the HuCAL® phage display library and expressed in a mammalian cell line. This antibody is supplied as a liquid.
<b>Preparation</b>	Purified recombinant IgG prepared by affinity chromatography on Protein A from a mammalian cell line
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.01% Thiomersal
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Human IL-1 $\beta$
<b>Specificity</b>	<b>Human Anti Interleukin-1<math>\beta</math> antibody, clone AbD52287ia</b> is a research grade biosimilar

of the monoclonal antibody drug canakinumab. It is a recombinant human IgG1 kappa antibody of the allotype G1m3. This product is supplied in a research grade format, i.e. in PBS buffer with preservative, it is not manufactured or formulated in the same way as the therapeutic reference product. A preservative free version is available [on request](#).

Human Anti IL-1 $\beta$  antibody, clone AbD52287ia, is for research use only. It is suitable as a reference standard in a pharmacokinetic (PK) bridging ELISA with anti-canakinumab antibodies.

Canakinumab is a recombinant human monoclonal antibody which binds to IL-1 $\beta$  (interleukin-1 beta). It's mode of action is based on the neutralization of IL-1 $\beta$  signaling, resulting in suppression of inflammation in patients with disorders of autoimmune origin. In June 2009, the FDA approved canakinumab for the treatment of cryopyrin-associated periodic syndromes (CAPS), a spectrum of autoinflammatory syndromes. In September 2016, the FDA approved it's use for three additional rare and serious auto-inflammatory diseases: tumor necrosis factor receptor associated periodic syndrome (TRAPS), hyperimmunoglobulin D syndrome (HIDS)/mevalonate kinase deficiency (MKD), and familial Mediterranean fever (FMF). In June 2020, canakinumab was FDA-approved for the indication to treat active Still's disease, including adult-onset Still's disease (AOSD).

This product is NOT FOR THERAPEUTIC USE.

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<b>Purity</b>	>98% by SDS PAGE
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<b>Storage</b>	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.
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<b>Guarantee</b>	12 months from date of despatch
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<b>Acknowledgements</b>	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 <a href="http://bio-rad.com/en-us/trademarks">bio-rad.com/en-us/trademarks</a> for details.
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10094 available at: 10094: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10094.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10094.pdf</a>
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<b>Licensed Use</b>	For in vitro research purposes only. Research grade biosimilar. Not for use in therapeutic or diagnostic procedures for humans or animals.
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<b>Regulatory</b>	For research purposes only
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<b>Technical Advice</b>	Protocols and further information may be found in the <a href="#">HuCAL Technical Manual</a>
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## Related Products

### Recommended Useful Reagents

[GOAT ANTI HUMAN IgG F\(ab'\)<sub>2</sub>:HRP \(STAR126P\)](#)

[LYNX RAPID HRP ANTIBODY CONJUGATION KIT \(LNK002P\)](#)

[HISPEC ASSAY DILUENT \(BUF049A\)](#)

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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)

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