

## Datasheet: HCA335

<b>Description:</b>	HUMAN ANTI ABATACEPT
<b>Specificity:</b>	ABATACEPT
<b>Other names:</b>	Orencia
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD37058ia
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](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>Product Form</b>	Human IgG1 antibody (kappa light chain) selected from the HuCAL phage display library and expressed in a human cell line. This antibody is supplied as a liquid.
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A
<b>Source</b>	HKB-11
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.01% Thiomersal
<b>Approx. Protein Concentrations</b>	Antibody concentration 0.5 mg/ml
<b>Immunogen</b>	Abatacept

**Specificity**

**Human Anti-Abatacept Antibody, clone AbD37058ia** is a recombinant antibody that specifically recognizes the fusion protein drug abatacept as well as cytotoxic T-lymphocyte antigen-4 (CTLA-4), also known as CD152. The antibody binds to free abatacept and can be used to measure free abatacept or abatacept biosimilars in patient samples.

Clone AbD37058ia is a fully human recombinant monoclonal antibody with an IgG1 isotype and is suitable as a surrogate positive control or reference standard in an anti-drug antibody (ADA) assay. Additionally, the antibody can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug. It is recommended as the detection antibody, paired with Mouse Anti-Human CD152 Antibody, clone BNI3 ([MCA1724](#)) as the capture reagent.

Abatacept (Orencia) is a recombinant fusion protein consisting of the extra-cellular domain of human CTLA-4, fused to the modified Fc (hinge, CH2, and CH3 domains) portion of human IgG1. It is used to treat several autoimmune diseases, including rheumatoid arthritis, psoriatic arthritis and juvenile idiopathic arthritis, by inhibiting optimal T-cell activation. It binds to CD80 and CD86 on antigen-presenting cells and blocks the costimulatory interaction with CD28 on T cells.

[View a summary of all anti-abatacept antibodies](#)

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**Affinity**

The intrinsic affinity of the monovalent form of Human anti Abatacept antibody, clone AbD37058ia is  $K_D = 1$  nM as measured by real time, label free molecular interaction analysis on immobilized Abatacept.

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**ELISA**

Human anti Abatacept antibody, clone AbD37058ia can be used in an indirect ELISA or as detection antibody for Abatacept in a bridging ELISA together with [MCA1724](#) as the capture reagent. It can also be used as a calibrator in an anti-drug antibody assay.

Protocol: [PK bridging ELISA](#).

Protocol: [ADA bridging ELISA](#).

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**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.

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**Guarantee**

12 months from date of despatch

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**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](http://bio-rad.com/en-us/trademarks) for details.

Orencia is a trademark of Bristol-Myers Squibb Company.

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**Health And Safety**

Material Safety Datasheet documentation #10094 available at:

**Information** <https://www.bio-rad-antibodies.com/SDS/HCA335>  
10094

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**Licensed Use** For *in vitro* research purposes and for commercial applications for the provision of *in vitro* testing services to support preclinical and clinical drug development. Any re-sale in any form or any other commercial application needs a written agreement with Bio-Rad.

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**Regulatory** For research purposes only

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**Technical Advice** Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the [HuCAL Antibodies Technical Manual](#).

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## Related Products

### Recommended Useful Reagents

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

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

[HUMAN ANTI ABATACEPT \(HCA336\)](#)

### ELISA Matched Pair - Capture Antibody

[MOUSE ANTI HUMAN CD152 \(MCA1724\)](#)

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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://www.bio-rad-antibodies.com/datasheets)  
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