

## Datasheet: HCA393

<b>Description:</b>	HUMAN ANTI BELATACEPT
<b>Specificity:</b>	BELATACEPT
<b>Other names:</b>	Nulojix
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD36935ia
<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>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	Antibody concentration 0.5 mg/ml
<b>Immunogen</b>	Belatacept

**Specificity**

**Human Anti-Belatacept Antibody, clone AbD36935ia** is an affinity-matured, non-inhibitory, anti-idiotypic antibody. It recognizes the drugs belatacept and abatacept, and their biosimilar products as well as cytotoxic T-lymphocyte antigen-4 (CTLA-4), also known as CD152. The antibody binds to free belatacept, abatacept and human CTLA4 and can be used to measure free belatacept, abatacept or their biosimilars in patient samples.

Clone 36935ia is a monoclonal antibody with hIgG1 isotype and is suitable as a positive control or as detection antibody for Belatacept in a PK bridging ELISA.

This Anti-Belatacept Antibody cross-reacts with the drug abatacept (Orencia). It is only 2 amino acids different from abatacept. LEA29Y-belatacept was constructed by two amino acid substitutions (L104E and A29Y) compared to abatacept that gave rise to slower dissociation rates for both CD86 and CD80.

Belatacept (Nulojix) is a genetically engineered fusion protein which consists of the functional binding domain of modified human CTLA-4 and the Fc domain of human monoclonal immunoglobulin of the IgG1 subclass. The Fc part has the allotype IGHG1\*05. Belatacept is indicated for prophylaxis of organ rejection in adult patients receiving a kidney transplant. It is to be used in combination with basiliximab induction, mycophenolate mofetil, and corticosteroids.

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

**Affinity**

The intrinsic affinity of the monovalent form of Human anti Belatacept antibody, clone AbD36935ia is  $K_D = 6$  nM as measured by real time, label free molecular interaction analysis on immobilized Belatacept..

**ELISA**

Human anti Belatacept antibody, clone AbD36935ia can be used in a direct or indirect ELISA. It can also be used as the detection antibody for belatacept in a PK bridging ELISA together with [HCA391](#) as the capture reagent. Moreover, HCA393 may be used as a calibrator for the set-up of an anti-drug antibody (ADA) assay.

[PK bridging ELISA](#)

[ADA bridging ELISA](#)

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

Nulojix is a trademark of Bristol-Myers Squibb Company.

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/HCA393>  
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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 BELATACEPT \(HCA391\)](#)

[HUMAN ANTI BELATACEPT \(HCA392\)](#)

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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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