

Datasheet: HCA392

Description:	HUMAN ANTI BELATACEPT
Specificity:	BELATACEPT
Other names:	Nulojix
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD37060ia
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
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.

Product Form	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.
Preparation	Purified IgG prepared by affinity chromatography on Protein A
Source	HKB-11
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	Antibody concentration 0.5 mg/ml
Immunogen	Belatacept

Specificity

Human Anti-Belatacept Antibody, clone AbD37060ia is an affinity-matured, 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 AbD37060ia is a monoclonal antibody with hIgG1 isotype and is suitable as a positive control or as a calibrator for the set-up of an anti-drug antibody (ADA) assay. This clone is also available in a Fab format ([HCA391](#))

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 AbD37060ia is $K_D = 0.6$ nM as measured by real time, label free molecular interaction analysis on immobilized belatacept..

ELISA

Human anti Belatacept antibody, clone AbD37060ia can be used in a direct or indirect ELISA. It can also be used as a calibrator for the set-up of an anti-drug antibody assay (ADA assay)

Protocol: [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 for details.

Nulojix is a trademark of Bristol-Myers Squibb Company.

Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/HCA392 10040
Licensed Use	For <i>in vitro</i> research purposes and for commercial applications for the provision of <i>in vitro</i> 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.
Regulatory	For research purposes only
Technical Advice	Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the HuCAL Antibodies Technical Manual .

Related Products

Recommended Useful Reagents

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

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

[HUMAN ANTI BELATACEPT \(HCA391\)](#)

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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
'M421960:230818'

Printed on 18 Aug 2023