

Datasheet: HCA391

Description:	HUMAN ANTI BELATACEPT
Specificity:	BELATACEPT
Other names:	Nulojix
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD37060
Isotype:	Fab antibody
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

A monovalent human recombinant Fab (kappa light chain) selected from the HuCAL® phage display library, expressed in *E. coli*. The antibody is tagged with a DYKDDDDK tag and a HIS-tag (HHHHHH) at the C-terminus of the antibody heavy chain. This antibody is supplied as a liquid.

Preparation

Metal chelate affinity chromatography

Source

E. coli

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide (NaN₃)

Approx. Protein Concentrations

Antibody concentration 0.5 mg/ml

Immunogen	Belatacept
RRID	AB_2943071
Specificity	<p>Human Anti-Belatacept Antibody, clone AbD37060 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.</p> <p>Clone AbD37060 is a monoclonal antibody with Fab isotype and is suitable as a positive control or as capture antibody for Belatacept in a PK bridging ELISA. This clone is also available in a full length hIgG1 format (HCA392)</p> <p>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.</p> <p>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.</p> <p>View a summary of all anti-belatacept antibodies</p>
Affinity	The intrinsic affinity of the monovalent form of Human anti Belatacept antibody, clone AbD37060 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 AbD37060 can be used in a direct or indirect ELISA. It can also be used as a capture antibody for belatacept in a PK bridging ELISA together with HCA393P as the detection reagent.
	PK bridging ELISA
Storage	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
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.

His-tag is a registered trademark of EMD Biosciences.

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/HCA391>
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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.

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 \(HCA392\)](#)

[HUMAN ANTI BELATACEPT \(HCA393\)](#)

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