

Datasheet: TZA0144P

BATCH NUMBER 172700

Description:	HUMAN ANTI BELATACEPT:HRP
Specificity:	BELATACEPT
Other names:	Nulojix
Format:	HRP
Product Type:	Monoclonal Antibody
Clone:	AbD36935pap
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 bivalent human recombinant Fab (kappa light chain) generated by coupling of the monovalent SpyTagged Fab with a HRP conjugated BiSpyCatcher version 2 ([TZC002P](#)). The coupled antibody has two DYKDDDDK tags and three His6-tags. It contains SpyTag3 peptide ([BLP086](#)) in 5-fold molar excess to block any unreacted Catcher sites. This antibody is supplied as a liquid.

Preparation

Metal chelate affinity chromatography

Source

E.coli

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.0095% MIT

Approx. Protein

Antibody concentration 0.5 mg/ml

Concentrations

Immunogen Belatacept

Specificity **Human Anti-Belatacept Antibody, clone AbD36935pap** is a non-inhibitory, anti-idiotypic antibody (type 2). 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. TZA0144P, clone AbD36935pap is a bivalent Fab antibody already conjugated to HRP via coupling to the HRP conjugated BiSpyCatcher2 ([TZC002P](#)) for use in direct ELISA.

A pair of anti-belatacept antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug. Clone AbD36935pap is recommended as the detection antibody, paired with Human Anti-Belatacept Antibody in monovalent Fab format, clone AbD37060 ([HCA391](#)) as the capture antibody.

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 Aflibercept antibody, clone AbD36935pap is $K_D = 6$ nM as measured by real time, label free molecular interaction analysis on immobilized belatacept.

ELISA Clone AbD36935pap can be used in direct or indirect ELISA to detect belatacept. It can also be used as a detection antibody to develop a pharmacokinetic (PK) bridging ELISA for belatacept together with [HCA391](#) as the capture reagent.

Protocol: [PK bridging ELISA](#)

Storage This product is shipped frozen.
When ready to use, thaw and aliquot the sample as needed. Store aliquots at -70°C, if available, otherwise store at -20°C. It is not recommended to keep aliquots at 4°C for more than one week

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 #20479 available at: https://www.bio-rad-antibodies.com/SDS/TZA0144P
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 for coupling a Fab antibody with a SpyTag to a SpyCatcher can be found at SpyTag and SpyCatcher Products , 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 \(BUF049A\)](#)

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

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

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

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M450069:260303'

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