

Datasheet: HCA400

Description:	HUMAN ANTI OCRELIZUMAB
Specificity:	OCRELIZUMAB
Other names:	Ocrevus
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD50641ia
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 (lambda light chain) selected from Bio-Rad's human antibody phage display libraries. 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 (NaN₃)

Approx. Protein Concentrations

Antibody concentration 0.5 mg/ml

Immunogen

Ocrelizumab

Specificity

Human Anti-Ocrelizumab Antibody, clone AbD50641ia is a paratope specific, inhibitory, anti-idiotypic antibody (Type 1) that specifically recognizes the free human monoclonal antibody drug ocrelizumab and its biosimilar products. Consequently, this antibody can be used to measure free ocrelizumab levels in serum from patients.

Clone AbD50641ia (HCA400) is a fully human recombinant monoclonal antibody with IgG1 isotype and is suitable as a positive control or calibrator in an anti-drug antibody (ADA) assay.

This clone is also available in a monovalent Fab antibody format under product code [TZA044](#) which has a SpyTag incorporated for conversion by the user into alternative antibody formats using any of the SpyCatchers available in our catalog.

[View a summary of all SpyCatcher products](#)

This Anti-Ocrelizumab Antibody cross-reacts with the drug rituximab (Rituxan). Ocrelizumab is the humanized form of rituximab. There are changes in at least one of the CDRs and it contains Fc modification.

Ocrelizumab (trade name Ocrevus) is a monoclonal IgG1/kappa antibody (VH3/ κ 1). In vitro, it binds to CD20 cell surface molecules on target cells thereby inducing immune effector mechanisms such as antibody-dependent cellular phagocytosis (ADCP), antibody-dependent cellular cytotoxicity (ADCC), complement-dependent cytotoxicity (CDC), and apoptosis. In vivo, ocrelizumab selectively and effectively depletes CD20⁺ B cells. Hence, it is an immunosuppressive drug. Ocrelizumab is used to treat primary progressive multiple sclerosis and relapsing forms of multiple sclerosis in adults (including clinically isolated syndrome, relapsing-remitting disease, and active secondary progressive disease).

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

Affinity

The monovalent intrinsic affinity of Human anti-Ocrelizumab Antibody, clone AbD50641ia was measured as $K_D < 0.001$ nM by real time, label-free molecular interaction analysis on immobilized ocrelizumab.

ELISA

This product may be used to develop and calibrate immune response assays to measure the anti-drug antibody (ADA) response in patient sera together with [HCA399](#) and [HCA401](#).

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. Ocrevus is a registered trademark of Genentech/ Roche and Biogen. Rituxan is a registered trademark of Genentech and Biogen.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/HCA400 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 OCRELIZUMAB \(HCA401\)](#)

[HUMAN ANTI OCRELIZUMAB \(TZA044\)](#)

[HUMAN ANTI OCRELIZUMAB \(TZA045\)](#)

[HUMAN ANTI OCRELIZUMAB:HRP \(TZA045P\)](#)

[HUMAN ANTI OCRELIZUMAB \(HCA399\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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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

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