

## Datasheet: HCA400

**BATCH NUMBER 166855**

<b>Description:</b>	HUMAN ANTI OCRELIZUMAB
<b>Specificity:</b>	OCRELIZUMAB
<b>Other names:</b>	Ocrevus
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD50641ia
<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 (lambda light chain) selected from Bio-Rad's human antibody phage display libraries. 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>	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/ $\kappa$ 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<sup>+</sup> 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).

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<b>Affinity</b>	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.
<b>ELISA</b>	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 <a href="#">HCA399</a> and <a href="#">HCA401</a> .
<b>Storage</b>	<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>
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	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 <a href="http://bio-rad.com/en-us/trademarks">bio-rad.com/en-us/trademarks</a> for details.

Ocrevus is a registered trademark of Genentech/ Roche and Biogen.  
Rituxan is a registered trademark of Genentech and Biogen.

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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/HCA400">https://www.bio-rad-antibodies.com/SDS/HCA400</a> 10040
<b>Licensed Use</b>	For <i>in vitro</i> . 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.
<b>Regulatory</b>	For research purposes only
<b>Technical Advice</b>	Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the <a href="#">HuCAL Antibodies Technical Manual</a> .

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## 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 \(HCA399\)](#)

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