

Datasheet: TZA044

BATCH NUMBER 169268

Description:	HUMAN ANTI OCRELIZUMAB
Specificity:	OCRELIZUMAB
Other names:	Ocrevus
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD50641ad
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 (lambda light chain) selected from Bio-Rad's human antibody phage display libraries. The antibody is tagged with a DYKDDDDK tag, a SpyTag version 2 (VPTIVMVDAYKRYK) and a His6-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

0.0095% MIT

Approx. Protein Concentrations

Antibody concentration 0.5 mg/ml

Specificity

Human Anti-Ocrelizumab Antibody, clone AbD50641ad 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.

This antibody is available in two formats - a monovalent Fab unconjugated format, clone AbD50641ad (TZA044), which has a SpyTag incorporated. This format can be used as a capture antibody in a pharmacokinetic (PK) bridging ELISA together with AbD50651 as a detection antibody. Clone AbD50641 is also available in full length IgG1 format under product code [HCA400](#) which can be used in an ADA bridging ELISA as a surrogate positive control.

Human Anti-Ocrelizumab Antibody, clone AbD50641ad has been shown to cross-react with the antibody drug rituximab (tradenname 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-ocrelizumab antibodies](#)

Affinity

The monovalent intrinsic affinity of Human anti-Ocrelizumab Antibody, clone AbD50641ad 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 in a direct ELISA.

Clone AbD50641ad can be used as the capture antibody for ocrelizumab in a PK bridging ELISA together with clone AbD50651pap ([TZA045P](#)) as the detection antibody.

Protocol: [PK 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.
His-tag is a registered trademark of EMD Biosciences.
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 #20479 available at: <https://www.bio-rad-antibodies.com/SDS/TZA044>
20479

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 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 \(BUF049A\)](#)

[SpyTag3 PEPTIDE \(BLP086\)](#)

[HUMAN ANTI OCRELIZUMAB \(HCA400\)](#)

[HUMAN ANTI OCRELIZUMAB \(HCA401\)](#)

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

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

[BiSpyCatcher2:HRP \(TZC002P\)](#)

[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

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

'M431185:240701'

Printed on 12 Sep 2024

© 2024 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)