

Datasheet: TZA045P

Description:	HUMAN ANTI OCRELIZUMAB:HRP
Specificity:	OCRELIZUMAB
Other names:	Ocrevus
Format:	HRP
Product Type:	Monoclonal Antibody
Clone:	AbD50651
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 (lambda light chain) generated by coupling of the monovalent SpyTagged Fab [TZA045](#) 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 Concentrations

Antibody concentration 0.5 mg/ml

Specificity

Human Anti-Ocrelizumab Antibody, clone AbD50651 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. It does not cross react with rituximab.

This TrailBlazer Antibody is available in a purified monovalent Fab format tagged with a SpyTag2 at the C terminus of the Fab antibody heavy chain (TZA044), enabling the user to couple it to a SpyCatcher reagent for conversion to alternative formats in less than one hour. It is also available as a bivalent Fab format pre-coupled to an HRP-conjugated BiSpyCatcher2 ([TZC002P](#)) for direct detection of ocrelizumab under product code TZA045P.

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 AbD50651pap 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 AbD50651pap (TZA045P) can be used as the detection antibody for ocrelizumab in a PK bridging ELISA together with clone AbD50641ad ([TZA044](#)) as the capture antibody.

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.

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/TZA045P 20479
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

[HUMAN ANTI OCRELIZUMAB \(HCA400\)](#)
[HUMAN ANTI OCRELIZUMAB \(HCA401\)](#)
[HUMAN ANTI OCRELIZUMAB \(TZA044\)](#)
[HISPEC ASSAY DILUENT \(BUF049A\)](#)
[HUMAN ANTI OCRELIZUMAB \(TZA045\)](#)
[HUMAN ANTI OCRELIZUMAB \(HCA399\)](#)

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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
'M432826:240912'

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