

Datasheet: TZA067

Description:	HUMAN ANTI EMICIZUMAB
Specificity:	EMICIZUMAB
Other names:	Hemlibra
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD50383
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 the HuCAL® phage display library, expressed in a proprietary *E. coli* strain. 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

ImmunogenEmicizumab

Specificity

Human Anti-Emicizumab Antibody, clone AbD50383 is a paratope specific, anti-idiotypic antibody (Type 1) that specifically recognizes the humanized monoclonal antibody emicizumab, namely the Factor X binding part of emicizumab. This antibody does not recognize free human Factor IXa or Factor X, nor emicizumab in complex with either human Factor IXa or Factor X. This antibody can be used to measure free emicizumab levels in serum from patients.

TZA067 is available as a monovalent Fab antibody incorporating a SpyTag at the C-terminus end of the antibody heavy chain for conversion by the end user into alternative formats using any of the [SpyCatchers](#) available in our catalog under product code [TZA067](#). It is also available as a bivalent Fab antibody already conjugated to HRP via coupling to the HRP conjugated BiSpyCatcher2 ([TZC002P](#)) for use in direct ELISA under product code [TZA067P](#).

A pair of anti-emicizumab antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug; clone AbD50383 is recommended as a detection antibody, paired with Human Anti-Emicizumab Antibody, clone AbD50384ad ([TZA066](#)) as the capture antibody.

Emicizumab (trade name Hemlibra) is a humanized, immunoglobulin G4 (IgG4), asymmetric bispecific monoclonal antibody. The two kappa light chains are identical. Emicizumab bridges activated factor IX (FIXa) and factor X (FX) to restore the function of missing activated factor VIII (FVIIIa) that is needed for effective haemostasis. Emicizumab is indicated in adult and pediatric patients (ages newborn and older) with hemophilia A with or without factor VIII (FVIII) inhibitors.

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

Affinity

The monovalent intrinsic affinity of AbD50383ad was measured as $K_D = 3$ nM by real time, label free molecular interaction analysis on immobilized emicizumab.

ELISA

Clone AbD50383ad may be used as the detection antibody together with AbD50384ad ([TZA066](#)) as the capture antibody for emicizumab in a PK bridging ELISA.

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.

Hemlibra is a trademark of Chugai Pharmaceuticals Co. Ltd.

Health And Safety Information	Material Safety Datasheet documentation #20479 available at: https://www.bio-rad-antibodies.com/SDS/TZA067
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 \(BUF049A\)](#)

[LYNX RAPID HRP ANTIBODY CONJUGATION KIT \(LNK002P\)](#)

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

[HUMAN ANTI EMICIZUMAB \(HCA436\)](#)

[HUMAN ANTI EMICIZUMAB \(HCA437\)](#)

[HUMAN ANTI EMICIZUMAB \(TZA066\)](#)

[HUMAN ANTI EMICIZUMAB:HRP \(TZA067P\)](#)

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

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Printed on 24 Sep 2025