

## Datasheet: TZA067P

<b>Description:</b>	HUMAN ANTI EMICIZUMAB:HRP
<b>Specificity:</b>	EMICIZUMAB
<b>Other names:</b>	Hemlibra
<b>Format:</b>	HRP
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD50383
<b>Isotype:</b>	Fab antibody
<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.

### Product Form

A bivalent human recombinant Fab (lambda light chain) generated by coupling of the monovalent SpyTagged Fab [TZA067](#) 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

**Immunogen**

Emicizumab

**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 AbD50383pap was measured as  $K_D = 3$  nM by real time, label free molecular interaction analysis on immobilized emicizumab.

**ELISA**

Clone AbD50383pap 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 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](http://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.

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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #20479 available at: <a href="https://www.bio-rad-antibodies.com/SDS/TZA067P">https://www.bio-rad-antibodies.com/SDS/TZA067P</a>
<b>Licensed Use</b>	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.
<b>Regulatory</b>	For research purposes only
<b>Technical Advice</b>	Recommended protocols for coupling a Fab antibody with a SpyTag to a SpyCatcher can be found at <a href="#">SpyTag and SpyCatcher Products</a> , 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 \(BUF049A\)](#)  
[HUMAN ANTI EMICIZUMAB \(TZA066\)](#)  
[HUMAN ANTI EMICIZUMAB \(TZA067\)](#)  
[HUMAN ANTI EMICIZUMAB \(HCA436\)](#)  
[HUMAN ANTI EMICIZUMAB \(HCA437\)](#)

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://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](http://bio-rad-antibodies.com/datasheets)  
'M443070:250620'

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