

## Datasheet: HCA437

<b>Description:</b>	HUMAN ANTI EMICIZUMAB
<b>Specificity:</b>	EMICIZUMAB
<b>Other names:</b>	Hemlibra
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD51683ia
<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 the HuCAL phage display library and expressed in a human cell line. This product 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>	Emicizumab

<b>Specificity</b>	<p><b>Human Anti-Emicizumab Antibody, clone AbD51683ia</b> 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.</p> <p>HCA437 is a fully human recombinant monoclonal antibody with IgG1 isotype and is suitable as a surrogate positive control or calibrator in an anti-drug antibody (ADA) assay. This antibody has a monovalent intrinsic affinity of 5nM and is one of the two antibodies offered for ADA assays. Antibody <a href="#">HCA436</a> has an affinity of 1nM.</p> <p>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.</p> <p><a href="#">View a summary of all anti-emicizumab antibodies</a></p>
<b>Affinity</b>	<p>The intrinsic affinity of the monovalent form of Human Anti-Emicizumb Antibody, clone AbD51683ia is <math>K_D = 5 \text{ nM}</math> as measured by real time, label free molecular interaction analysis on immobilized emicizumab.</p>
<b>ELISA</b>	<p>Clone AbD51683ia can be used in indirect ELISA to detect emicizumab. It can also be used as a surrogate positive control or a calibrator in an anti-drug antibody (ADA) assay, together with <a href="#">HCA436</a>.</p> <p>Protocol: <a href="#">ADA bridging ELISA</a></p>
<b>Storage</b>	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at <math>-20^\circ\text{C}</math> on receipt. When thawed, aliquot the sample as needed. Keep aliquots at <math>2\text{-}8^\circ\text{C}</math> for short term use (up to 4 weeks) and store the remaining aliquots at <math>-20^\circ\text{C}</math>.</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>	<p>12 months from date of despatch</p>
<b>Acknowledgements</b>	<p>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.</p> <p>Hemlibra is a trademark of Chugai Pharmaceuticals Co. Ltd.</p>
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/HCA437">https://www.bio-rad-antibodies.com/SDS/HCA437</a></p>
<b>Licensed Use</b>	<p>For <i>in vitro</i> research purposes and for commercial applications for the provision of <i>in vitro</i></p>

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.

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**Regulatory** For research purposes only

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**Technical Advice** Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the [HuCAL Antibodies Technical Manual](#).

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## Related Products

### Recommended Useful Reagents

[HISPEC ASSAY DILUENT \(BUF049A\)](#)

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

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

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

[HUMAN ANTI EMICIZUMAB \(TZA067\)](#)

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

**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)

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