

Datasheet: HCA436

**BATCH NUMBER 170573**

<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>	AbD51689ia
<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 (kappa 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 AbD51689ia</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. This antibody can be used to measure free emicizumab levels in serum from patients.</p> <p>HCA436 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 1nM and is one of the two antibodies offered for ADA assays. Antibody <a href="#">HCA437</a> has an affinity of 5nM.</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>
<b>Affinity</b>	<p>The intrinsic affinity of the monovalent form of Human Anti-Emicizumab Antibody, clone AbD51689ia is <math>K_D = 1 \text{ nM}</math> as measured by real time, label free molecular interaction analysis on immobilized emicizumab.</p>
<b>ELISA</b>	<p>Clone AbD51689ia 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="#">HCA437</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>2-8^\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/HCA436">https://www.bio-rad-antibodies.com/SDS/HCA436</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> 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.</p>

**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 \(HCA437\)](#)

[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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