

Datasheet: HCA436

Description:	HUMAN ANTI EMICIZUMAB
Specificity:	EMICIZUMAB
Other names:	Hemlibra
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD51689ia
Isotype:	IgG1
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	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.
Preparation	Purified IgG prepared by affinity chromatography on Protein A
Source	HKB-11
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	Antibody concentration 0.5 mg/ml
Immunogen	Emicizumab

Specificity	<p>Human Anti-Emicizumab Antibody, clone AbD51689ia 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>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 HCA437 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> <p>View a summary of all anti-emicizumab antibodies</p>
Affinity	<p>The intrinsic affinity of the monovalent form of Human Anti-Emicizumab Antibody, clone AbD51689ia is $K_D = 1 \text{ nM}$ as measured by real time, label free molecular interaction analysis on immobilized emicizumab.</p>
ELISA	<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 HCA437.</p> <p>Protocol: ADA bridging ELISA</p>
Storage	<p>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 $2\text{-}8^\circ\text{C}$ for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
Guarantee	<p>12 months from date of despatch</p>
Acknowledgements	<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 bio-rad.com/en-us/trademarks for details.</p> <p>Hemlibra is a trademark of Chugai Pharmaceuticals Co. Ltd.</p>
Health And Safety Information	<p>Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/HCA436</p>
Licensed Use	<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.

Regulatory For research purposes only

Technical Advice Recommended protocols 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 \(LNK002P\)](#)

[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

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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