

## Datasheet: HCA408

<b>Description:</b>	HUMAN ANTI RAMUCIRUMAB
<b>Specificity:</b>	RAMUCIRUMAB
<b>Other names:</b>	Cyramza
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD53006ia
<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>	Ramucirumab

<b>Specificity</b>	<p><b>Human Anti-Ramucirumab Antibody, clone AbD53006ia</b> is a paratope specific, inhibitory, anti-idiotypic antibody (Type 1) that specifically recognizes the free human monoclonal antibody drug ramucirumab, and its biosimilar products. It does not recognize the drug target, the human vascular endothelial growth factor receptor 2 (VEGFR2), nor ramucirumab in complex with VEGFR2. This antibody can be used to measure free ramucirumab levels in serum from patients.</p> <p>HCA408 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 0.8nM and is one of the three antibodies offered for ADA assays. Antibody <a href="#">HCA407</a> has an affinity of &lt;0.1nM and <a href="#">HCA409</a> has an affinity of 1.4nM.</p> <p>Ramucirumab (trade name Cyramza) is a humanized monoclonal antibody of the IgG1/kappa isotype that binds to the extracellular VEGF-binding domain of VEGFR2 to prevent VEGF ligands to bind to VEGFR2. Ramucirumab therefore blocks the activation of VEGFR2 and the downstream angiogenesis pathways involved in tumor development and progression. Ramucirumab is indicated, alone or in combination with another drug for the treatment of advanced gastric adenocarcinoma and non-small cell lung cancer.</p>
<b>Affinity</b>	The intrinsic affinity of the monovalent form of Human Anti-Ramucirumab Antibody, clone AbD53006ia is $K_D = 0.8 \text{ nM}$ as measured by real time, label free molecular interaction analysis on immobilized ramucirumab
<b>ELISA</b>	Clone AbD53006ia can be used in indirect ELISA to detect ramucirumab. It can also be used as a surrogate positive control or a calibrator in an anti-drug antibody (ADA) assay, together with <a href="#">HCA407</a> and <a href="#">HCA409</a>
<b>Storage</b>	This product is shipped refrigerated. When ready to use, thaw and aliquot the sample as needed. Store aliquots at $-70^\circ\text{C}$ , if available, otherwise store at $-20^\circ\text{C}$ . It is not recommended to keep aliquots at $4^\circ\text{C}$ for more than one week.
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	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. Cyramza is a trademark of Eli Lilly.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/HCA408">https://www.bio-rad-antibodies.com/SDS/HCA408</a> 10040
<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

**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 RAMUCIRUMAB \(DRUG/TARGET COMPLEX\) \(TZA053\)](#)

[HUMAN ANTI RAMUCIRUMAB \(DRUG/TARGET COMPLEX\):HRP \(TZA053P\)](#)

[HUMAN ANTI RAMUCIRUMAB \(HCA407\)](#)

[HUMAN ANTI RAMUCIRUMAB \(HCA409\)](#)

[HUMAN ANTI RAMUCIRUMAB \(TZA050\)](#)

[HUMAN ANTI RAMUCIRUMAB \(TZA051\)](#)

[HUMAN ANTI RAMUCIRUMAB:HRP \(TZA051P\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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