

## Datasheet: HCA186G

**BATCH NUMBER 168750**

<b>Description:</b>	HUMAN ANTI RITUXIMAB
<b>Specificity:</b>	RITUXIMAB
<b>Other names:</b>	MabThera, Rituxan
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD18423
<b>Isotype:</b>	HuCAL Fab monovalent
<b>Quantity:</b>	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 monovalent human recombinant Fab (kappa light chain) selected from the HuCAL phage display library, expressed in *E. coli*. The antibody is tagged with a DYKDDDDK tag and a HIS-tag (HHHHHH) at the C-terminus of the antibody heavy chain. This antibody is supplied as a liquid.

### Preparation

Metal chelate affinity chromatography

### Source

*E.coli*

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

0.09% Sodium Azide (NaN<sub>3</sub>)

### Approx. Protein Concentrations

Antibody concentration 1.0 mg/ml

<b>Immunogen</b>	Rituximab
<b>Specificity</b>	<p><b>Human Anti-Rituximab Antibody, clone AbD18423</b> is a recombinant, anti-idiotypic antibody in monovalent Fab format that specifically recognizes the monoclonal antibody drug rituximab and inhibits it binding to its target, CD20. The antibody can be used to measure the levels of rituximab and biosimilar products in bioanalytical assays.</p> <p>This antibody may be used as the capture antibody in a pharmacokinetic bridging ELISA in conjunction with <a href="#">MCA2260</a> as the detection antibody.</p> <p>Rituximab (reference product branded as Rituxan) is a chimeric mouse/human monoclonal antibody approved for the treatment of certain autoimmune diseases and cancer, including non-Hodgkin's lymphoma, chronic lymphocytic leukemia and rheumatoid arthritis. The antibody is specific for the cell surface protein CD20, which is widely expressed on B cells. Through three different mechanisms of action it eliminates B cells from the body, enabling the development of a new population of healthy B cells.</p> <p><a href="#">View a summary of all Anti-Rituximab Antibodies.</a></p>
<b>Affinity</b>	The intrinsic affinity of this antibody is $K_D=0.13$ nM as measured by real time, label-free molecular interaction analysis on immobilized rituximab.
<b>ELISA</b>	This product may be used as a capture antibody in a sandwich ELISA together with <a href="#">MCA2260P</a> as the detection reagent. Protocol: <a href="#">PK bridging ELISA to measure free drug.</a>
<b>References</b>	1. Komori, M. <i>et al.</i> (2016) Insufficient disease inhibition by intrathecal rituximab in progressive multiple sclerosis. <a href="#">Ann Clin Transl Neurol. 3 (3): 166-79.</a>
<b>Storage</b>	<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 2-8°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>
<b>Guarantee</b>	12 months from date of despatch
<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>His-tag is a registered trademark of EMD Biosciences.</p>
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/HCA186G">https://www.bio-rad-antibodies.com/SDS/HCA186G</a></p> <p>10040</p>
<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.

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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

[RAT ANTI RITUXIMAB \(MCA2260\)](#)

[RAT ANTI RITUXIMAB:FITC \(MCA2260F\)](#)

[HUMAN ANTI RITUXIMAB \(HCA061\)](#)

[RAT ANTI RITUXIMAB:HRP \(MCA2260P\)](#)

[MOUSE ANTI PENTA HISTIDINE TAG:HRP \(MCA5995P\)](#)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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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