

Datasheet: HCA199

Description:	HUMAN ANTI ALEMTUZUMAB
Specificity:	ALEMTUZUMAB
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD19189_hIgG1
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 selected from the HuCAL phage display library and expressed in a human cell line.
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	Total protein concentration 0.5 mg/ml
Immunogen	Alemtuzumab.

Specificity **Human anti Alemtuzumab antibody, clone AbD19189_hIgG1**, recognizes alemtuzumab, a monoclonal antibody drug directed to human CD52 and used in the

treatment of chronic lymphocytic leukemia (CLL), cutaneous T-cell lymphoma (CTCL) and T-cell lymphoma. Alemtuzumab is also used in some conditioning regimes for bone marrow transplantation, kidney transplantation and Islet cell transplantation along with clinical trial protocols for treatment of certain autoimmune diseases including multiple sclerosis.

Human anti Alemtuzumab antibody, clone AbD19189_hlgG1 is an anti-idiotypic antibody that specifically recognizes the alemtuzumab humanized monoclonal antibody and can be used to measure the levels of alemtuzumab and biosimilar products using bioanalytical assays.

This antibody, when conjugated to HRP, may be used in a bridging ELISA in conjunction with clone [AbD19189](#) or clone [AbD16942](#).

Clone AbD19189_hlgG1 has been demonstrated to inhibit the binding of alemtuzumab to CD52-positive human cells in flow cytometry. It also blocks the binding of Rat anti Human CD52 antibody, [clone YTH34.5](#), the Rat monoclonal prototype antibody of alemtuzumab, to CD52+ cells.

[View a summary of all anti-alemtuzumab antibodies.](#)

Affinity	The intrinsic affinity of the monovalent form of this antibody is $K_D=0.2$ nM as measured by real time, label-free molecular interaction analysis on immobilized alemtuzumab.
ELISA	<p>This product may be used in an indirect ELISA or as a detection antibody in a bridging ELISA when conjugated to HRP together with HCA198 as the capture reagent.</p> <p>A Lynx HRP rapid conjugation kit may be used to conjugate this antibody to HRP. Protocol: PK bridging ELISA to measure free drug</p> <p>This antibody is fully human and can be used as a reference standard in an ADA assay. 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 2-8°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>
Guarantee	12 months from date of despatch
Acknowledgements	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.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/HCA199 10040

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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

[HUMAN ANTI ALEMTUZUMAB \(HCA174\)](#)

[HUMAN ANTI ALEMTUZUMAB:HRP \(HCA175P\)](#)

[HUMAN ANTI ALEMTUZUMAB \(HCA175\)](#)

[HUMAN ANTI ALEMTUZUMAB \(HCA198\)](#)

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

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

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: 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

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: 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

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