

## Datasheet: HCA198

<b>Description:</b>	HUMAN ANTI ALEMTUZUMAB
<b>Specificity:</b>	ALEMTUZUMAB
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD19189
<b>Isotype:</b>	HuCAL Fab monovalent
<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>	A monovalent human recombinant Fab (lambda light chain) selected from the HuCAL phage display library, expressed in <i>E. coli</i> . 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.
<b>Preparation</b>	Metal chelate affinity chromatography
<b>Source</b>	<i>E. coli</i>
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	Total protein concentration 0.5 mg/ml
<b>Immunogen</b>	Alemtuzumab.

**Specificity**

**Human anti Alemtuzumab antibody, clone AbD19189** 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 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 may be used in a bridging ELISA in conjunction with horseradish peroxidase conjugated clone [AbD19189 hlgG1](#) or clone [AbD16942](#).

Clone AbD19189 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.](#)

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**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.

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**ELISA**

This product may be used in an indirect ELISA or as a capture antibody in a bridging ELISA together with [HCA175P](#) or [HCA199](#) as the detection reagent when conjugated to HRP.

Protocol: [PK bridging ELISA to measure free drug.](#)

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**Storage**

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.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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**Guarantee**

12 months from date of despatch

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**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](http://bio-rad.com/en-us/trademarks) for details.

His-tag is a registered trademark of EMD Biosciences.

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**Health And Safety Information**

Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/HCA198>  
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**Licensed Use** For *in vitro* research purposes and for commercial applications for the provision of *in vitro* 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 Secondary Antibodies

Rat Anti Synthetic Peptide DYKDDDDK TAG (MCA4764...) [HRP](#), [Purified](#)

Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA5995...) [HRP](#)

Rabbit Anti Synthetic Peptide DYKDDDDK TAG (AHP1074...) [Purified](#), [HRP](#)

Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA1396...) [Alk. Phos.](#), [Purified](#), [Biotin](#)

### Recommended Useful Reagents

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

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

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

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

[HUMAN ANTI ALEMTUZUMAB \(HCA199\)](#)

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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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