

## Datasheet: HCA175P

**BATCH NUMBER 157011**

<b>Description:</b>	HUMAN ANTI ALEMTUZUMAB:HRP
<b>Specificity:</b>	ALEMTUZUMAB
<b>Format:</b>	HRP
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD16942_hlgG1
<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 (kappa light chain) selected from the HuCAL® phage display library and expressed in a human cell line. Conjugated to horseradish peroxidase (HRP) - liquid.
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A.
<b>Buffer Solution</b>	Phosphate buffered saline.
<b>Preservative Stabilisers</b>	0.01% Thiomersal
<b>Approx. Protein Concentrations</b>	Total protein concentration 0.1 mg/ml.
<b>Immunogen</b>	Alemtuzumab.
<b>Specificity</b>	<b>Human anti Alemtuzumab, clone AbD16942_hlgG1</b> , is an anti-idiotypic antibody that specifically recognizes the alemtuzumab humanized monoclonal antibody.

Human anti Alemtuzumab, clone AbD16942\_hlgG1 can be used to measure the levels of alemtuzumab and biosimilar products using bioanalytical assays. The HRP conjugated format of this antibody (HCA175P) may be used in a bridging ELISA with Human anti-alemtuzumab antibody, clone AbD16728.

Alemtuzumab is a drug 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, clone AbD16942\_hlgG1 has been demonstrated to inhibit the binding of alemtuzumab to CD52-positive human cells in flow cytometry. Clone AbD16728 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 ([MCA1642](#)), the rat monoclonal prototype antibody of alemtuzumab, to CD52+ cells.

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

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<b>Affinity</b>	The monovalent intrinsic affinity of this antibody was measured as $K_D=2.4$ nM by real time, label-free molecular interaction analysis on immobilized alemtuzumab.
<b>ELISA</b>	This product may be used in a direct ELISA or as a detection reagent in a sandwich ELISA together with <a href="#">HCA174</a> as the capture reagent. Protocol: <a href="#">PK bridging ELISA to measure free drug</a>
<b>References</b>	1. Kashiwagi, N. <i>et al.</i> (2017) Method for measuring anti-drug antibody <a href="#">US Patent Application US20170315118A1</a>
<b>Storage</b>	Store at -70°C. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	Sold under license of U.S. Patents 6753136, 7785859 and 8273688 and corresponding patents. This antibody was developed by Bio-Rad, Zeppelinstr. 4, 82178 Puchheim, Germany.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10094 available at: <a href="https://www.bio-rad-antibodies.com/SDS/HCA175P">https://www.bio-rad-antibodies.com/SDS/HCA175P</a> 10094
<b>Licensed Use</b>	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 Useful Reagents

[RAT ANTI HUMAN CD52 \(MCA1642\)](#)

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

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

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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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