

Datasheet: HCA175

Description:	HUMAN ANTI ALEMTUZUMAB
Specificity:	ALEMTUZUMAB
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD16942_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 (kappa light chain) 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.
RRID	AB_11152938

Specificity	<p>Human anti Alemtuzumab, clone AbD16942_hlgG1, is an anti-idiotypic antibody that specifically recognizes the alemtuzumab humanized monoclonal antibody.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>View a summary of all anti-alemtuzumab antibodies.</p>
Affinity	The intrinsic affinity of the monovalent form of this antibody is $K_D=2.4$ 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 when conjugated to HRP in a bridging ELISA together with HCA174 as the capture reagent. 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.</p>
References	1. Kashiwagi, N. <i>et al.</i> (2017) Method for measuring anti-drug antibody US Patent Application US20170315118A1
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	Material Safety Datasheet documentation #10040 available at:

Information <https://www.bio-rad-antibodies.com/SDS/HCA175>
10040

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.

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

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

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

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

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](https://www.bio-rad-antibodies.com/datasheets)

'M428316:240301'

Printed on 03 May 2024

© 2024 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)