

Datasheet: HCA175P

BATCH NUMBER INN1610

Description:	HUMAN ANTI ALEMTUZUMAB:HRP
Specificity:	ALEMTUZUMAB
Format:	HRP
Product Type:	Monoclonal Antibody
Clone:	AbD16942_hlgG1
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. Conjugated to horseradish peroxidase (HRP) - liquid.
Preparation	Purified IgG prepared by affinity chromatography on Protein A.
Buffer Solution	Phosphate buffered saline.
Preservative Stabilisers	0.01% Thiomersal
Approx. Protein Concentrations	Total protein concentration 0.1 mg/ml.
Immunogen	Alemtuzumab.
Specificity	Human anti Alemtuzumab, clone AbD16942_hlgG1 , 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.](#)

Affinity	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.
ELISA	This product may be used in a direct ELISA or as a detection reagent in a sandwich ELISA together with HCA174 as the capture reagent. Protocol: PK bridging ELISA to measure free drug
References	1. Kashiwagi, N. <i>et al.</i> (2017) Method for measuring anti-drug antibody US Patent Application US20170315118A1
Storage	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.
Guarantee	12 months from date of despatch
Acknowledgements	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.
Health And Safety Information	Material Safety Datasheet documentation #10094 available at: https://www.bio-rad-antibodies.com/SDS/HCA175P 10094
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 \(BUF049A\)](#)

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