

Datasheet: HCA174

Description:	HUMAN ANTI ALEMTUZUMAB
Specificity:	ALEMTUZUMAB
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD16728
Isotype:	HuCAL Fab monovalent
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

A monovalent human recombinant Fab (lambda light chain) selected from the HuCAL® phage display library, expressed in *E. coli*. The antibody is tagged with a V5 tag and a double extended Strep-tag. This antibody is supplied as a liquid.

Preparation

StrepTactin affinity chromatography.

Buffer Solution

Phosphate buffered saline.

Preservative Stabilisers

0.01% Thiomersal

Approx. Protein Concentrations

Total protein concentration 0.5 mg/ml.

Immunogen

Alemtuzumab.

RRID

AB_11152765

Specificity

Human anti Alemtuzumab antibody, clone AbD16728 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 AbD16728 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 AbD16942 ([HCA175P](#)).

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 clone YTH34.5, 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 $K_D=1.6$ nM by real time, label-free molecular interaction analysis on immobilized alemtuzumab.
ELISA	This product may be used in an indirect ELISA or as a capture antibody in a sandwich ELISA together with HCA175P as the detection reagent. Protocol: PK bridging ELISA to measure free drug
Storage	Store at +4°C or at -20°C if preferred. 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: 10094: https://www.bio-rad-antibodies.com/uploads/MSDS/10094.pdf
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 Secondary Antibodies

Mouse Anti Synthetic Peptide STREP-TAG IMMO (MCA2488...) [Purified](#)
Mouse Anti Synthetic Peptide STREP-TAG CLASSIC (MCA2489...) [Purified](#), [HRP](#)
Mouse Anti Viral V5-TAG (MCA1360...) [Biotin](#), [HRP](#), [Purified](#)

Recommended Useful Reagents

[RAT ANTI HUMAN CD52 \(MCA1642\)](#)
[HISPEC ASSAY DILUENT \(BUF049A\)](#)
[HUMAN ANTI ALEMTUZUMAB:HRP \(HCA175P\)](#)

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