

Datasheet: HCA366

BATCH NUMBER 159797

Description:	HUMAN ANTI DARATUMUMAB
Specificity:	DARATUMUMAB
Other names:	Darzalex
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD44786ia
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 (lambda light chain) selected from the HuCAL® phage display library and expressed in a human cell line. This antibody is supplied as a liquid.
Preparation	Purified IgG prepared by affinity chromatography on Protein A
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.01% Thiomersal
Approx. Protein Concentrations	Antibody concentration 0.5 mg/ml
Immunogen	Daratumumab
Specificity	Human Anti-Daratumumab Antibody, clone AbD44786ia is a paratope specific,

inhibitory anti-idiotypic antibody that specifically recognizes the monoclonal antibody daratumumab. It does not recognize free CD38 nor daratumumab in complex with CD38. The antibody can be used to measure free daratumumab in patient samples.

Clone AbD44786ia is a fully human recombinant monoclonal antibody with IgG1 isotype and can be used as a reference standard in an anti-drug antibody (ADA) assay. This antibody has a monovalent intrinsic affinity of 9 nM, and is one of three antibodies with different affinities offered for ADA assays.

Daratumumab (Darzalex) is a human IgG1/lambda antibody generated using transgenic mouse technology. It has been approved for the treatment of patients with multiple myeloma. It has orphan drug designation for multiple myeloma, diffuse large B cell lymphoma, follicular lymphoma, and mantle cell lymphoma. The antibody drug targets CD38, overexpressed by multiple myeloma cells, and indirectly induces apoptosis. In addition, daratumumab modulates CD38 enzymatic activity, inhibiting the cyclase enzyme activity and stimulating the hydrolase activity ([Van de Donk et al. 2016](#)).

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

Affinity	The monovalent intrinsic affinity of AbD44786ia was measured as $K_D = 9$ nM by real time, label free molecular interaction analysis on immobilized daratumumab.
ELISA	Clone AbD44786ia can be used as a calibrator in an anti-drug antibody assay. Protocol: ADA bridging ELISA
Further Reading	1. van, N.D.D. et al. (2016) Monoclonal antibodies targeting CD38 in hematological malignancies and beyond. Immunol Rev. 270 (1): 95-112.
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.
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. Darzalex is a trademark of Janssen Biotech, Inc.
Health And Safety Information	Material Safety Datasheet documentation #10094 available at: https://www.bio-rad-antibodies.com/SDS/HCA366 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

[HUMAN ANTI DARATUMUMAB \(HCA364\)](#)

[HUMAN ANTI DARATUMUMAB \(HCA365\)](#)

[LYNX RAPID HRP ANTIBODY CONJUGATION KIT \(LNK002P\)](#)

[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

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