

Datasheet: HCA364

BATCH NUMBER 172589

Description:	HUMAN ANTI DARATUMUMAB
Specificity:	DARATUMUMAB
Other names:	Darzalex
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD45015ia
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. This antibody is supplied as a liquid.
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	Antibody concentration 0.5 mg/ml
Immunogen	Daratumumab

Specificity **Human Anti-Daratumumab Antibody, clone AbD45015ia** 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.

This anti-daratumumab antibody can be used as both capture and detection reagent to develop a pharmacokinetic (PK) bridging assay to measure free drug.

Clone AbD45015ia is a fully human recombinant monoclonal antibody with IgG1 isotype and is suitable as a surrogate positive control or reference standard in an anti-drug antibody (ADA) assay. This antibody has a monovalent intrinsic affinity of 0.9 nM, and is one of three antibodies with different affinities offered for ADA assays.

Daratumumab (Darzalex) is a human IgG1/kappa 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 intrinsic affinity of the monovalent form of Human anti Daratumumab antibody, clone AbD45015ia is $K_D = 0.9$ nM as measured by real time, label free molecular interaction analysis on immobilized Daratumumab.

ELISA Human anti Daratumumab antibody, clone AbD45015ia can be used as capture and detection antibody for Daratumumab in a bridging ELISA to measure free drug. It can also be used as a calibrator in an anti-drug antibody assay.

Protocol: [ADA bridging ELISA](#).

Protocol: [PK 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 #10040 available at: https://www.bio-rad-antibodies.com/SDS/HCA364
Licensed Use	For <i>in vitro</i> research purposes and for commercial applications for the provision of <i>in vitro</i> 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 \(HCA365\)](#)

[HUMAN ANTI DARATUMUMAB \(HCA366\)](#)

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

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

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M442531:250528'

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