

## Datasheet: HCA365

|                      |                        |
|----------------------|------------------------|
| <b>Description:</b>  | HUMAN ANTI DARATUMUMAB |
| <b>Specificity:</b>  | DARATUMUMAB            |
| <b>Other names:</b>  | Darzalex               |
| <b>Format:</b>       | Purified               |
| <b>Product Type:</b> | Monoclonal Antibody    |
| <b>Clone:</b>        | AbD44788ia             |
| <b>Isotype:</b>      | IgG1                   |
| <b>Quantity:</b>     | 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](http://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.

|                                       |  |
|---------------------------------------|--|
| <b>Product Form</b>                   | 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. |
| <b>Preparation</b>                    | Purified IgG prepared by affinity chromatography on Protein A  |
| <b>Source</b>                         | HKB-11   |
| <b>Buffer Solution</b>                | Phosphate buffered saline  |
| <b>Preservative Stabilisers</b>       | 0.09% Sodium Azide (NaN <sub>3</sub> )   |
| <b>Approx. Protein Concentrations</b> | Antibody concentration 0.5 mg/ml   |
| <b>Immunogen</b>                      | Daratumumab  |

**Specificity**

**Human Anti-Daratumumab Antibody, clone AbD44788ia** 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 AbD44788ia 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 3 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](#)

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**Affinity**

The intrinsic affinity of the monovalent form of Human anti Daratumumab antibody, clone AbD44788ia is  $K_D = 3$  nM as measured by real time, label free molecular interaction analysis on immobilized Daratumumab.

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**ELISA**

Human anti Daratumumab antibody, clone AbD44788ia can be used as a calibrator in an anti-drug antibody assay.  
Protocol: [ADA bridging ELISA](#).

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**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](#).

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**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.

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**Guarantee**

12 months from date of despatch

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**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](http://bio-rad.com/en-us/trademarks) for details.  
Darzalex is a trademark of Janssen Biotech, Inc.

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**Health And Safety Information**

Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/HCA365>  
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**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.

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**Regulatory** For research purposes only

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**Technical Advice** Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the [HuCAL Antibodies Technical Manual](#).

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## Related Products

### Recommended Useful Reagents

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

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

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