

## Datasheet: HCA459

<b>Description:</b>	HUMAN ANTI BUROSUMAB
<b>Specificity:</b>	BUROSUMAB
<b>Other names:</b>	Crysvita
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD63865ia
<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>	Burosumab

**Specificity** **Human Anti-Burosumab Antibody, clone AbD63865ia** is a paratope specific, inhibitory, anti-idiotypic antibody (Type 1) that specifically recognizes the free human monoclonal antibody drug burosumab. It does not recognize the drug target hFGF-23-His, nor burosumab in complex with hFGF-23-His.

HCA459 is a fully human recombinant monoclonal antibody with IgG1 isotype and is suitable as a surrogate positive control or calibrator in an anti-drug antibody (ADA) assay. This antibody has a monovalent intrinsic affinity of 0.1nM and is one of the three antibodies offered for ADA assays. Antibody [HCA460](#) has an affinity of 0.6nM and [HCA461](#) has an affinity of 6.2nM.

Burosumab (trade name Crysvida) is a humanized monoclonal antibody of the IgG1/kappa isotype that binds to fibroblast growth factor-23 (FGF23), blocking the interaction with the FGFR1. Burosumab therefore inhibits FGF23 signaling, thereby increasing tubular phosphate reabsorption and decreasing renal phosphate excretion, as well as increasing serum levels of 1,25(OH)2D and increasing GI absorption of phosphate. As a result, bone mineralization is improved and the risk of bone disease is decreased. Burosumab is indicated for the treatment of X-linked hypophosphatemia and tumor-induced osteomalacia.

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

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**Affinity** The monovalent intrinsic affinity of Human anti-Burosumab Antibody, clone AbD63865ia was measured as  $K_D = 0.1$  nM by real time, label-free molecular interaction analysis on immobilized burosumab.

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**ELISA** Clone AbD63865ia can be used in indirect ELISA to detect burosumab. It can also be used as a surrogate positive control or a calibrator in an anti-drug antibody (ADA) assay, together with [HCA460](#) and [HCA461](#).

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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.  
Crysvida is a trademark of Kyowa Hakko Kirin and Ultragenyx Pharmaceutical.

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/HCA459>

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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

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

[HUMAN ANTI BUROSUMAB \(HCA460\)](#)

[HUMAN ANTI BUROSUMAB \(HCA461\)](#)

[HUMAN ANTI BUROSUMAB \(TZA0109\)](#)

[HUMAN ANTI BUROSUMAB \(TZA0110\)](#)

[HUMAN ANTI BUROSUMAB:HRP \(TZA0110P\)](#)

[HUMAN ANTI BUROSUMAB \(DRUG/TARGET COMPLEX\) \(TZA0111\)](#)

[HUMAN ANTI BUROSUMAB \(DRUG/TARGET COMPLEX\):HRP \(TZA0111P\)](#)

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://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](http://bio-rad-antibodies.com/datasheets)  
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