

## Datasheet: HCA428

<b>Description:</b>	HUMAN ANTI BENRALIZUMAB
<b>Specificity:</b>	BENRALIZUMAB
<b>Other names:</b>	Fasenra
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD60166ia
<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 (lambda light chain) selected from the HuCAL phage display library and expressed in a human cell line. This product 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>	Benralizumab

**Specificity**

**Human Anti-Benralizumab Antibody, clone AbD60166ia** is a paratope specific, anti-idiotypic antibody (Type 1) that specifically recognizes the free human monoclonal antibody drug benralizumab. It does not recognize the drug target, human interleukin 5 receptor  $\alpha$  (IL5R $\alpha$ ), nor benralizumab in complex with IL5R $\alpha$ .

HCA428 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 6nM and is one of the three antibodies offered for ADA assays. Antibody [HCA426](#) has an affinity of 0.2nM and [HCA427](#) has an affinity of 4nM.

Benralizumab (trade name Fasentra) is a humanized monoclonal antibody of the IgG1/kappa isotype that binds with high affinity to a conformationally distinct epitope within domain 1 of the  $\alpha$ -chain of IL-5R, and thus inhibits proliferation of IL-5-dependent cell lines, and otherwise blocks signaling through the IL-5 receptor. Benralizumab is indicated as a maintenance treatment for severe asthma and an eosinophilic phenotype.

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

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**Affinity**

The intrinsic affinity of the monovalent form of Human Anti-Benralizumab Antibody, clone AbD60166ia is  $K_D = 6$  nM as measured by real time, label free molecular interaction analysis on immobilized benralizumab.

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**ELISA**

Clone AbD60166ia can be used in indirect ELISA to detect benralizumab. It can also be used as a surrogate positive control or a calibrator in an anti-drug antibody (ADA) assay, together with [HCA427](#) and [HCA426](#).

Protocol: [ADA bridging ELISA](#)

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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.

Fasentra is a trademark of MedImmune, now owned by AstraZeneca.

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**Health And Safety Information**

Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/HCA428>

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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 \(BUF049A\)](#)

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

[HUMAN ANTI BENRALIZUMAB \(HCA426\)](#)

[HUMAN ANTI BENRALIZUMAB \(HCA427\)](#)

[HUMAN ANTI BENRALIZUMAB \(TZA068\)](#)

[HUMAN ANTI BENRALIZUMAB \(TZA069\)](#)

[HUMAN ANTI BENRALIZUMAB:HRP \(TZA069P\)](#)

[HUMAN ANTI BENRALIZUMAB \(DRUG/TARGET COMPLEX\) \(TZA097\)](#)

[HUMAN ANTI BENRALIZUMAB \(DRUG/TARGET COMPLEX\):HRP \(TZA097P\)](#)

**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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