

Datasheet: HCA427

Description:	HUMAN ANTI BENRALIZUMAB
Specificity:	BENRALIZUMAB
Other names:	Fasenra
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD59975ia
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 product 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	Benralizumab

Specificity

Human Anti-Benralizumab Antibody, clone AbD59975ia 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 α (IL5R α), nor benralizumab in complex with IL5R α .

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

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 α -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](#)

Affinity

The intrinsic affinity of the monovalent form of Human Anti-Benralizumab Antibody, clone AbD59975ia is $K_D = 4$ nM as measured by real time, label free molecular interaction analysis on immobilized benralizumab.

ELISA

Clone AbD59975ia 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 [HCA426](#) and [HCA428](#).

Protocol: [ADA bridging ELISA](#)

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.

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

Health And Safety Information

Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/HCA427>

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

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

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

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

[HUMAN ANTI BENRALIZUMAB \(HCA428\)](#)

[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

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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