

Datasheet: TZA069

Description:	HUMAN ANTI BENRALIZUMAB
Specificity:	BENRALIZUMAB
Other names:	Fasenra
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD59973
Isotype:	Fab antibody
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

A monovalent human recombinant Fab (lambda light chain) selected from the HuCAL® phage display library, expressed in a proprietary *E. coli* strain. The antibody is tagged with a DYKDDDDK tag, a SpyTag version 2 (VPTIVMVDAYKRYK) and a His6-tag (HHHHHH) at the C-terminus of the antibody heavy chain. This antibody is supplied as a liquid.

Preparation

Metal chelate affinity chromatography

Source

E. coli

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.0095% MIT

Approx. Protein Concentrations

Antibody concentration 0.5 mg/ml

ImmunogenBenralizumab

Specificity

Human Anti-Benralizumab Antibody, clone AbD59973 is a paratope specific, inhibitory, 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 . This antibody can be used to measure free benralizumab levels in serum from patients.

Clone AbD59973 is available as a monovalent Fab antibody incorporating a SpyTag at the C-terminus end of the antibody heavy chain for conversion by the end user into alternative formats using any of the [SpyCatchers](#) available in our catalog under product code [TZA069](#). It is also available as a bivalent Fab antibody already conjugated to HRP via coupling to the HRP conjugated BiSpyCatcher2 ([TZC002P](#)) for use in direct ELISA under product code [TZA069P](#).

A pair of anti-benralizumab antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug; clone AbD59973ad is recommended as a detection antibody, paired with Human Anti-Benralizumab Antibody, clone AbD60095ad ([TZA068](#)) as the capture reagent.

Benralizumab (trade name Fasenra) 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-belimumab antibodies](#)

Affinity

The monovalent intrinsic affinity of AbD59973ad was measured as $K_D = 2$ nM by real time, label free molecular interaction analysis on immobilized benralizumab.

ELISA

Clone AbD59973ad can be used in indirect ELISA to detect benralizumab. It can also be used as a detection antibody to develop a pharmacokinetic (PK) bridging ELISA for benralizumab together with [TZA068](#) as the capture reagent.

Protocol: [PK 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 $2-8^{\circ}\text{C}$ 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.
His-tag is a registered trademark of EMD Biosciences.
Fasenra is a trademark of MedImmune, now owned by AstraZeneca.

Health And Safety Information	Material Safety Datasheet documentation #20479 available at: https://www.bio-rad-antibodies.com/SDS/TZA069
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 for coupling a Fab antibody with a SpyTag to a SpyCatcher can be found at SpyTag and SpyCatcher Products , 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 \(LNK002P\)](#)

[SpyTag3 PEPTIDE \(BLP086\)](#)

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

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

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

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

[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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