

Datasheet: TZA097

Description:	HUMAN ANTI BENRALIZUMAB (DRUG/TARGET COMPLEX)
Specificity:	BENRALIZUMAB DRUG/TARGET COMPLEX
Other names:	Fasenra
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD59979
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

Immunogen	Benralizumab/IL5R α complex
Specificity	<p>Human Anti-Benralizumab (Drug/Target Complex) Antibody, clone AbD59979 specifically recognizes the antibody drug benralizumab when in complex with its target, human interleukin 5 receptor α (IL5Rα). It does not recognize free benralizumab nor unbound IL-5R.</p> <p>The monovalent Fab format of this antibody, clone AbD59979ad (TZA097) is tagged with a SpyTag2 at the C-terminus of the Fab heavy chain, enabling the user to couple it to a SpyCatcher reagent for conversion to alternative formats in less than one hour. This antibody is also available as a monovalent Fab antibody pre-coupled to the HRP-conjugated SpyCatcher2 (TZC002P) under product code TZA097P for direct detection of the benralizumab/ IL5Rα complex in bioanalysis assays.</p> <p>Clone AbD59979 can be used in pharmacokinetic (PK) antigen detection format assays to measure benralizumab that has been captured via immobilized IL5Rα.</p> <p>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.</p> <p>View a summary of all anti-benralizumab antibodies</p>
Affinity	The monovalent intrinsic affinity of AbD59979ad was measured as $K_D = 1$ nM by real time, label free molecular interaction analysis on immobilized human IL5R α /benralizumab complex.
ELISA	<p>Clone AbD59979ad may be used in an indirect ELISA to detect the human IL5Rα/benralizumab complex or to detect benralizumab bound to immobilized human IL5Rα.</p> <p>Protocol: PK antigen capture ELISA</p>
Storage	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
Guarantee	12 months from date of despatch
Acknowledgements	<p>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.</p> <p>His-tag is a registered trademark of EMD Biosciences.</p>

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/TZA097
Licensed Use	For <i>in vitro</i> research purposes only, unless otherwise specified in writing by 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 \(BUF049A\)](#)

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

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

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

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

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

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

[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
'M444885:250806'

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