

Datasheet: TZA097P

BATCH NUMBER 171076

Description:	HUMAN ANTI BENRALIZUMAB (DRUG/TARGET COMPLEX):HRP
Specificity:	BENRALIZUMAB DRUG/TARGET COMPLEX
Other names:	Fasenra
Format:	HRP
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) generated by coupling of the monovalent SpyTagged Fab [TZA097](#) with a HRP conjugated BiSpyCatcher version 2 ([TZC002P](#)). The coupled antibody has two DYKDDDDK tags and three His6-tags. It contains SpyTag3 peptide ([BLP086](#)) in 5-fold molar excess to block any unreacted Catcher sites. 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

Antibody concentration 0.5 mg/ml

Concentrations

Immunogen Benralizumab/IL5R α complex

Specificity **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 (IL5R α). It does not recognize free benralizumab nor unbound IL-5R.

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/ IL5R α complex in bioanalysis assays.

Clone AbD59979 can be used in pharmacokinetic (PK) antigen detection format assays to measure benralizumab that has been captured via immobilized IL5R α .

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-benralizumab antibodies](#)

Affinity The monovalent intrinsic affinity of AbD59979oap was measured as $K_D = 1$ nM by real time, label free molecular interaction analysis on immobilized human IL5R α /benralizumab complex.

ELISA Clone AbD59979oap may be used in a direct ELISA to detect the human IL5R α /benralizumab complex or to detect benralizumab bound to immobilized human IL5R α .

Protocol: [PK antigen capture ELISA](#)

Storage This product is shipped frozen.
When ready to use, thaw and aliquot the sample as needed. Store aliquots at -70°C, if available, otherwise store at -20°C. It is not recommended to keep aliquots at 4°C for more than one week.

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/TZA097P
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 \(DRUG/TARGET COMPLEX\) \(TZA097\)](#)

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
'M444884:250806'

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