

## Datasheet: TZA097P

<b>Description:</b>	HUMAN ANTI BENRALIZUMAB (DRUG/TARGET COMPLEX):HRP
<b>Specificity:</b>	BENRALIZUMAB DRUG/TARGET COMPLEX
<b>Other names:</b>	Fasenra
<b>Format:</b>	HRP
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD59979
<b>Isotype:</b>	Fab antibody
<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.

**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 Concentrations** Antibody concentration 0.5 mg/ml

<b>Immunogen</b>	Benralizumab/IL5R $\alpha$ complex
<b>Specificity</b>	<p><b>Human Anti-Benralizumab (Drug/Target Complex) Antibody, clone AbD59979</b> specifically recognizes the antibody drug benralizumab when in complex with its target, human interleukin 5 receptor <math>\alpha</math> (IL5R<math>\alpha</math> ). It does not recognize free benralizumab nor unbound IL-5R.</p> <p>The monovalent Fab format of this antibody, clone AbD59979ad (<b>TZA097</b>) is tagged with a SpyTag2 at the C-terminus of the Fab heavy chain, enabling the user to couple it to a <a href="#">SpyCatcher reagent</a> 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 (<a href="#">TZC002P</a>) under product code <b>TZA097P</b> for direct detection of the benralizumab/ IL5R<math>\alpha</math> 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 IL5R<math>\alpha</math>.</p> <p>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 <math>\alpha</math>-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><a href="#">View a summary of all anti-benralizumab antibodies</a></p>
<b>Affinity</b>	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 $\alpha$ /benralizumab complex.
<b>ELISA</b>	<p>Clone AbD59979oap may be used in a direct ELISA to detect the human IL5R<math>\alpha</math>/benralizumab complex or to detect benralizumab bound to immobilized human IL5R<math>\alpha</math>.</p> <p>Protocol: <a href="#">PK antigen capture ELISA</a></p>
<b>Storage</b>	<p>This product is shipped frozen.</p> <p>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.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	<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 <a href="http://bio-rad.com/en-us/trademarks">bio-rad.com/en-us/trademarks</a> for details.</p> <p>His-tag is a registered trademark of EMD Biosciences.</p> <p>Fasentra is a trademark of MedImmune, now owned by AstraZeneca.</p>

<b>Health And Safety Information</b>	Material Safety Datasheet documentation #20479 available at: <a href="https://www.bio-rad-antibodies.com/SDS/TZA097P">https://www.bio-rad-antibodies.com/SDS/TZA097P</a>
<b>Licensed Use</b>	For <i>in vitro</i> research purposes only, unless otherwise specified in writing by Bio-Rad.
<b>Regulatory</b>	For research purposes only
<b>Technical Advice</b>	Recommended protocols for coupling a Fab antibody with a SpyTag to a SpyCatcher can be found at <a href="#">SpyTag and SpyCatcher Products</a> , and further information about HuCAL recombinant antibody technology can be found in the <a href="#">HuCAL Antibodies Technical Manual</a>

## 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](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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