

## Datasheet: TZA071P

<b>Description:</b>	HUMAN ANTI GUSELKUMAB:HRP
<b>Specificity:</b>	GUSELKUMAB
<b>Other names:</b>	Tremfya
<b>Format:</b>	HRP
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD59937
<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 bivalent human recombinant Fab (lambda light chain) generated by coupling of the monovalent SpyTagged Fab [TZA071](#) 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

**Immunogen**

Guselkumab

**Specificity**

**Human Anti-Guselkumab Antibody, clone AbD59937** is a paratope specific, inhibitory, anti-idiotypic antibody (Type 1) that specifically recognizes the free human monoclonal antibody drug guselkumab, and its biosimilar products. It does not recognize the drug target, the human Interleukin-23 (IL-23), nor guselkumab in complex with IL-23. This antibody can be used to measure free guselkumab levels in serum from patients.

A pair of anti-guselkumab antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug; clone AbD59937 is recommended as the detection reagent, paired with Human Anti-Guselkumab Antibody, clone AbD59307ad ([TZA070](#)) as the capture antibody.

TZA071 is 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.

Clone AbD59937 is also available conjugated to HRP via coupling to the BiSpyCatcher2:HRP ([TZC002P](#)) for direct detection of guselkumab.

Guselkumab (trade name Tremfya) is a fully human monoclonal antibody of the IgG1/lambda isotype binding to the p19 subunit of IL-23 to block its interaction with the IL-23 receptor, subsequently inhibiting the release of pro-inflammatory cytokines and chemokines. Guselkumab is approved for the treatment of moderate to severe plaque psoriasis in adults.

[View a summary of all anti-guselkumab antibodies](#)

**Affinity**

The monovalent intrinsic affinity of AbD59937pap was measured as  $K_D = 0.06$  nM by real time, label free molecular interaction analysis on immobilized guselkumab.

**ELISA**

Clone AbD59937pap can be used in direct ELISA to detect guselkumab. It can also be used as a detection antibody to develop a pharmacokinetic (PK) bridging ELISA for guselkumab, together with [TZA070](#) as the capture reagent.

Protocol: [PK bridging ELISA](#)

**Storage**

This product is shipped frozen.

When ready to use, thaw and aliquot the sample as needed. Store aliquots at  $-70^{\circ}\text{C}$ , if available, otherwise store at  $-20^{\circ}\text{C}$ . It is not recommended to keep aliquots at  $4^{\circ}\text{C}$  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](http://bio-rad.com/en-us/trademarks) for details.

His-tag is a registered trademark of EMD Biosciences.

Tremfya is a trademark of MorphoSys.

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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #20479 available at: <a href="https://www.bio-rad-antibodies.com/SDS/TZA071P">https://www.bio-rad-antibodies.com/SDS/TZA071P</a>
<b>Licensed Use</b>	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.
<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>

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## Related Products

### Recommended Useful Reagents

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

[HUMAN ANTI GUSELKUMAB \(TZA071\)](#)

[HUMAN ANTI GUSELKUMAB \(TZA070\)](#)

[HUMAN ANTI GUSELKUMAB \(DRUG/TARGET COMPLEX\) \(TZA072\)](#)

[HUMAN ANTI GUSELKUMAB \(DRUG/TARGET COMPLEX\):HRP \(TZA072P\)](#)

[HUMAN ANTI GUSELKUMAB \(HCA420\)](#)

[HUMAN ANTI GUSELKUMAB \(HCA421\)](#)

**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)  
'M438157:250328'

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