

Datasheet: TZA072

BATCH NUMBER 169960

Description:	HUMAN ANTI GUSELKUMAB (DRUG/TARGET COMPLEX)
Specificity:	GUSELKUMAB DRUG/TARGET COMPLEX
Other names:	Tremfya
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD59967
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 (kappa 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

Antibody concentration 0.5 mg/ml

Concentrations

Immunogen Guselkumab

Specificity **Human anti guselkumab (drug/target complex) Antibody, clone AbD59967** recognizes the antibody drug guselkumab when in complex with its target, the human Interleukin-23 (IL-23). It does not recognize free guselkumab nor unbound IL-23.

Clone AbD59967 can be used to develop a pharmacokinetic (PK) antigen capture assay to measure levels of guselkumab captured via immobilized IL-23.

TZA072 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 AbD59967 is also available conjugated to HRP via coupling to the BiSpyCatcher2:HRP ([TZC002P](#)) for direct detection of the IL-23/guselkumab complex.

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.

Affinity The monovalent intrinsic affinity of AbD59967ad was measured as $K_D = 33$ nM by real time, label free molecular interaction analysis on immobilized IL-23A/guselkumab complex.

ELISA Clone AbD59967ad can be used in indirect ELISA to detect the IL-23A/ guselkumab complex in a pharmacokinetic (PK) antigen capture assay.

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°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.

Tremfya is a trademark of MorphoSys.

Health And Safety Information Material Safety Datasheet documentation #20479 available at: <https://www.bio-rad-antibodies.com/SDS/TZA072>

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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 GUSELKUMAB \(TZA071\)](#)

[HUMAN ANTI GUSELKUMAB:HRP \(TZA071P\)](#)

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

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

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

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

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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