

Datasheet: TZA046

Description:	HUMAN ANTI SARILUMAB
Specificity:	SARILUMAB
Other names:	Kevzara
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD50191ad
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 Bio-Rad's human antibody phage display libraries 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

Sarilumab

Specificity

Human Anti-Sarilumab Antibody, clone AbD50191ad is a paratope specific, inhibitory, anti-idiotypic antibody (Type 1) that specifically recognizes the free human monoclonal antibody drug sarilumab, and its biosimilar products. It does not recognize the drug target, the human Interleukin 6 receptor (IL-6R), nor sarilumab in complex with IL-6R. This antibody can be used to measure free sarilumab levels in serum from patients.

A pair of anti-sarilumab antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug; clone AbD50191ad is recommended as a capture antibody for sarilumab, paired with Human Anti-Sarilumab Antibody, clone AbD51309 ([TZA047](#)) as the detection antibody.

TZA046 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.

Sarilumab (trade name Kevzara) is a humanized monoclonal antibody of the IgG1/kappa isotype that suppresses the inflammatory effects of interleukin-6 (IL-6) by binding to both membrane bound and soluble IL-6 receptor forms, thus blocking cis- and trans-inflammatory signaling cascades. Through this, sarilumab blocks the IL-6 signaling pathway (measured as STAT-3 inhibition). It is indicated for the treatment of moderate to severe reactive Rheumatoid Arthritis (RA) in adult patients who are irresponsive, respond inadequately or present intolerance to disease-modifying anti-rheumatic drugs (DMARDs) or tumor necrosis factor (TNF) antagonists. It is also indicated in combination with methotrexate (MTX) or as a monotherapy when there is intolerance to MTX or when MTX administration is inappropriate.

Affinity

The monovalent intrinsic affinity of Human Anti-Sarilumab Antibody, clone AbD50191ad was measured as $K_D = 0.02$ nM by real time, label-free molecular interaction analysis on immobilized sarilumab.

ELISA

Clone AbD50191ad can be used to detect sarilumab in indirect ELISA. It may also be used as the capture antibody together with AbD51309ad ([TZA047](#)) or AbD51309pap ([TZA047P](#)) as the detection reagent for sarilumab in a PK bridging ELISA.

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 $2-8^{\circ}\text{C}$ 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.

Kevzara is a registered trademark of Sanofi and Regeneron Pharmaceuticals.

**Health And Safety
Information**

Material Safety Datasheet documentation #20479 available at:
<https://www.bio-rad-antibodies.com/SDS/TZA046>
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Regulatory

For research purposes only

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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