

Datasheet: TZA047

**BATCH NUMBER 168430**

<b>Description:</b>	HUMAN ANTI SARILUMAB
<b>Specificity:</b>	SARILUMAB
<b>Other names:</b>	Kevzara
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD51309
<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 (kappa 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

Antibody concentration 0.5 mg/ml

## Concentrations

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**Immunogen** Sarilumab

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**Specificity** **Human Anti-Sarilumab Antibody, clone AbD51309** 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.

AbD51309 is available as 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 under product code [TZA047](#). It is also available as a bivalent Fab antibody already conjugated to HRP via coupling to the HRP conjugated BiSpyCatcher2 ([TZC002P](#)) for use in direct ELISA under product code [TZA047P](#).

A pair of anti-sarilumab antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug; clone AbD51309 is recommended as the detection antibody paired with clone AbD50191ad ([TZA046](#)) as the capture reagent.

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.

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**Affinity** The monovalent intrinsic affinity of Human Anti-Sarilumab Antibody, clone AbD51309ad was measured as  $K_D = 0.3$  nM by real time, label-free molecular interaction analysis on immobilized sarilumab.

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**ELISA** Clone AbD51309ad can be used to detect sarilumab in indirect ELISA. It may also be used as the detection antibody together with AbD50191ad ([TZA046](#)) as a capture reagent for sarilumab in a PK bridging ELISA.

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**Storage** This product is shipped at ambient temperature. It is recommended to aliquot and store at  $-20^{\circ}\text{C}$  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  $-20^{\circ}\text{C}$ .

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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**Guarantee** 12 months from date of despatch

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His-tag is a registered trademark of EMD Biosciences.  
Kevzara is a registered trademark of Sanofi and Regeneron Pharmaceuticals.

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**Health And Safety Information** Material Safety Datasheet documentation #20479 available at: <https://www.bio-rad-antibodies.com/SDS/TZA04720479>

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**Regulatory** For research purposes only

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