

Datasheet: TZA047P

Description:	HUMAN ANTI SARILUMAB:HRP
Specificity:	SARILUMAB
Other names:	Kevzara
Format:	HRP
Product Type:	Monoclonal Antibody
Clone:	AbD51309
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 bivalent human recombinant Fab (kappa light chain) generated by coupling of the monovalent SpyTagged Fab [TZA047](#) 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

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.

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

Affinity

The monovalent intrinsic affinity of Human Anti-Sarilumab Antibody, clone AbD51309pap was measured as $K_D = 0.3$ nM by real time, label-free molecular interaction analysis on immobilized sarilumab.

ELISA

Clone AbD51309pap can be used to detect sarilumab in direct 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.

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°C , if available, otherwise store at -20°C . It is not recommended to keep aliquots at 4°C for more than one week.

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/TZA047P
Licensed Use	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.
Regulatory	For research purposes only

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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