

## Datasheet: HCA411

**BATCH NUMBER 168427**

<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>	AbD49516ia
<b>Isotype:</b>	IgG1
<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.

<b>Product Form</b>	Human IgG1 antibody (kappa light chain) selected from the HuCAL phage display library and expressed in a human cell line. This product is supplied as a liquid.
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A
<b>Source</b>	HKB-11
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	Antibody concentration 0.5 mg/ml
<b>Immunogen</b>	Sarilumab

**Specificity** **Human Anti-Sarilumab Antibody, clone AbD49516ia** 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.

HCA411 is a fully human recombinant monoclonal antibody with IgG1 isotype and is suitable as a surrogate positive control or calibrator in an anti-drug antibody (ADA) assay. This antibody has a monovalent intrinsic affinity of 0.9nM and is one of the three antibodies offered for ADA assays. Antibody [HCA410](#) has an affinity of <0.1nM and [HCA412](#) has an affinity of 2nM.

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 AbD49516ia was measured as  $K_D = 0.9 \text{ nM}$  by real time, label-free molecular interaction analysis on immobilized sarilumab

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**ELISA** Clone AbD49516ia can be used in indirect ELISA to detect sarilumab. It can also be used as a surrogate positive control or a calibrator in an anti-drug antibody (ADA) assay, together with [HCA410](#) and [HCA412](#)

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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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**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.  
Kevzara is a registered trademark of Sanofi and Regeneron Pharmaceuticals

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/HCA411>  
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**Licensed Use** For *in vitro* research purposes and for commercial applications for the provision of *in vitro* 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.

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**Regulatory** For research purposes only

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**Technical Advice** Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the [HuCAL Antibodies Technical Manual](#).

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