

Datasheet: HCA410

BATCH NUMBER 168426

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| Description: | HUMAN ANTI SARILUMAB |
| Specificity: | SARILUMAB |
| Other names: | Kevzara |
| Format: | Purified |
| Product Type: | Monoclonal Antibody |
| Clone: | AbD49514ia |
| Isotype: | IgG1 |
| 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.

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|---------------------------------------|---|
| Product Form | 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. |
| Preparation | Purified IgG prepared by affinity chromatography on Protein A |
| Source | HKB-11 |
| Buffer Solution | Phosphate buffered saline |
| Preservative Stabilisers | 0.09% Sodium Azide (NaN ₃) |
| Approx. Protein Concentrations | Antibody concentration 0.5 mg/ml |
| Immunogen | Sarilumab |

Specificity **Human Anti-Sarilumab Antibody, clone AbD49514ia** 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.

HCA410 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 <0.1nM and is one of the three antibodies offered for ADA assays. Antibody [HCA411](#) has an affinity of 0.9nM 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.

Affinity The monovalent intrinsic affinity of Human Anti-Sarilumab Antibody, clone AbD49514ia was measured as $K_D = <0.1 \text{ nM}$ by real time, label-free molecular interaction analysis on immobilized sarilumab

ELISA Clone AbD49514ia 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 [HCA411](#) and [HCA412](#)

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.
Kevzara is a registered trademark of Sanofi and Regeneron Pharmaceuticals

Health And Safety Information Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/HCA410>
10040

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Regulatory For research purposes only

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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