

Datasheet: HCA417

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| Description: | HUMAN ANTI CANAKINUMAB |
| Specificity: | CANAKINUMAB |
| Other names: | Ilaris |
| Format: | Purified |
| Product Type: | Monoclonal Antibody |
| Clone: | AbD54331ia |
| 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 (lambda 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 | Canakinumab |

Specificity **Human Anti-Canakinumab Antibody, clone AbD54331ia** is a paratope specific, inhibitory, anti-idiotypic antibody (Type 1) that specifically recognizes the free human monoclonal antibody drug canakinumab, and its biosimilar products. It does not recognize the drug target, interleukin-1 beta (IL-1 β), nor canakinumab in complex with IL-1 β . This antibody can be used to measure free canakinumab levels in serum from patients.

HCA417 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 1.5nM and is one of the three antibodies offered for ADA assays. Antibody [HCA418](#) has an affinity of 7.7nM and [HCA419](#) has an affinity of 9.6nM.

Canakinumab (trade name Ilaris) is a fully humanized monoclonal IgG1/kappa antibody with allotype G1m3. It binds to interleukin-1 beta (IL-1 β) to neutralize up-regulated 1 β signaling, resulting in suppression of inflammation in patients with disorders of autoimmune origin. Canakinumab is indicated for treatment of Cryopyrin-Associated Periodic Syndromes (CAPS), three rare and serious auto-inflammatory diseases, Still's disease, and gouty arthritis.

Affinity The intrinsic affinity of the monovalent form of Human Anti-Canakinumab Antibody, clone AbD54331ia is $K_D = 1.5$ nM as measured by real time, label free molecular interaction analysis on immobilized canakinumab

ELISA Clone AbD54331ia can be used in indirect ELISA to detect canakinumab. It can also be used as a surrogate positive control or a calibrator in an anti-drug antibody (ADA) assay, together with [HCA418](#) and [HCA419](#)

Protocol: [ADA 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°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. Ilaris is a trademark of Novartis AG.

Health And Safety Information Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/HCA417>
10040

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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

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

Related Products

Recommended Useful Reagents

[HISPEC ASSAY DILUENT \(BUF049A\)](#)

[LYNX RAPID HRP ANTIBODY CONJUGATION KIT \(LNK002P\)](#)

[HUMAN ANTI CANAKINUMAB \(HCA418\)](#)

[HUMAN ANTI CANAKINUMAB \(HCA419\)](#)

[HUMAN ANTI CANAKINUMAB \(TZA063\)](#)

[HUMAN ANTI CANAKINUMAB \(TZA064\)](#)

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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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