

Datasheet: HCA418

Description:	HUMAN ANTI CANAKINUMAB
Specificity:	CANAKINUMAB
Other names:	llaris
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD54111ia
Isotype:	lgG1
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

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	Canakinumab

Specificity

Human Anti-Canakinumab Antibody, clone AbD54111ia 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-1β), nor canakinumab in complex with IL-1β. This antibody can be used to measure free canakinumab levels in serum from patients.

HCA418 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 7.7nM and is one of the three antibodies offered for ADA assays. Antibody <u>HCA417</u> has an affinity of 1.5nM and <u>HCA419</u> has an affinity of 9.6nM.

Canakinumab (trade name llaris) is a fully humanized monoclonal IgG1/kappa antibody with allotype G1m3. It binds to interleukin-1 beta ($IL-1\beta$) to neutralize up-regulated 1β 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 AbD54111ia is K_D = 7.7 nM as measured by real time, label free molecular interaction analysis on immobilized canakinumab

ELISA

Clone AbD54111ia 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 <u>HCA417</u> and <u>HCA419</u>

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/HCA418 10040

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.

Regulatory	For research purposes only
Technical Advice	Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the <u>HuCAL Antibodies Technical Manual</u> .

Related Products

Recommended Useful Reagents

HISPEC ASSAY DILUENT (BUF049A)

LYNX RAPID HRP ANTIBODY CONJUGATION KIT (LNK002P)

HUMAN ANTI CANAKINUMAB (HCA417)

HUMAN ANTI CANAKINUMAB (HCA419)

HUMAN ANTI CANAKINUMAB (TZA063)

HUMAN ANTI CANAKINUMAB (TZA064)

 North & South
 Tel: +1 800 265 7376
 Worldwide
 Tel: +44 (0)1865 852 700
 Europe
 Tel: +49 (0) 89 8090 95 21

 America
 Fax: +1 919 878 3751
 Fax: +44 (0)1865 852 739
 Fax: +49 (0) 89 8090 95 50

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M434290:250207'

Printed on 07 Feb 2025

© 2025 Bio-Rad Laboratories Inc | Legal | Imprint