

Datasheet: TZA064P

Description:	HUMAN ANTI CANAKINUMAB:HRP
Specificity:	CANAKINUMAB
Other names:	Ilaris
Format:	HRP
Product Type:	Monoclonal Antibody
Clone:	AbD54331
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 (lambda light chain) generated by coupling of the monovalent SpyTagged Fab [TZA064](#) with a HRP conjugated BiSpyCatcher version 2. 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

Immunogen

Canakinumab

Specificity

Human Anti-Canakinumab Antibody, clone AbD54331 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, the human 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.

Clone AbD54331 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 [TZA064](#). 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 [TZA064P](#).

A pair of anti-canakinumab antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug; clone AbD54331 is recommended as a detection antibody, paired with Human Anti-Canakinumab Antibody, clone AbD54116ad ([TZA063](#)) as the capture reagent.

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.

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

Affinity

The monovalent intrinsic affinity of AbD54331pap was measured as $K_D = 1.5$ nM by real time, label free molecular interaction analysis on immobilized canakinumab.

ELISA

Clone AbD54331pap can be used in direct ELISA to detect canakinumab. It can also be used as a detection antibody to develop a pharmacokinetic (PK) bridging ELISA for canakinumab, together with [TZA063](#) as the capture reagent.

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

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.
Ilaris is a trademark of Novartis AG.

Health And Safety Information	Material Safety Datasheet documentation #20479 available at: https://www.bio-rad-antibodies.com/SDS/TZA064P
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
Technical Advice	Recommended protocols for coupling a Fab antibody with a SpyTag to a SpyCatcher can be found at SpyTag and SpyCatcher Products , and further information about HuCAL recombinant antibody technology can be found in the HuCAL Antibodies Technical Manual

Related Products

Recommended Useful Reagents

[HUMAN ANTI CANAKINUMAB \(TZA063\)](#)
[HUMAN ANTI CANAKINUMAB \(HCA417\)](#)
[HUMAN ANTI CANAKINUMAB \(HCA418\)](#)
[HUMAN ANTI CANAKINUMAB \(HCA419\)](#)
[HISPEC ASSAY DILUENT \(BUF049A\)](#)

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
'M434363:250219'

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