

## Datasheet: TZA063

<b>Description:</b>	HUMAN ANTI CANAKINUMAB
<b>Specificity:</b>	CANAKINUMAB
<b>Other names:</b>	Ilaris
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD54116
<b>Isotype:</b>	Fab antibody
<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.

### Product Form

A monovalent human recombinant Fab (lambda light chain) selected from the HuCAL® phage display library, expressed in a proprietary *E. coli* strain. The antibody is tagged with a DYKDDDDK tag, a SpyTag version 2 (VPTIVMVDAYKRYK) and a His6-tag (HHHHHH) at the C-terminus of the antibody heavy chain. 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

<b>Immunogen</b>	Canakinumab
<b>Specificity</b>	<p><b>Human Anti-Canakinumab Antibody, clone AbD54116ad</b> 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<math>\beta</math>), nor canakinumab in complex with IL-1<math>\beta</math>. This antibody can be used to measure free canakinumab levels in serum from patients.</p> <p>A pair of anti-canakinumab antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug; clone AbD54116ad is recommended as a capture antibody, paired with Human Anti-Canakinumab Antibody, clone AbD54331 (<a href="#">TZA064</a>) as the detection antibody.</p> <p>TZA063 is 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 <a href="#">SpyCatchers</a> available in our catalog.</p> <p>Canakinumab (trade name Ilaris) is a fully humanized monoclonal IgG1/kappa antibody with allotype G1m3. It binds to interleukin-1 beta (IL-1<math>\beta</math>) to neutralize up-regulated 1<math>\beta</math> 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.</p>
<b>Affinity</b>	The monovalent intrinsic affinity of AbD54116ad was measured as $K_D = 9.6$ nM by real time, label free molecular interaction analysis on immobilized canakinumab.
<b>ELISA</b>	<p>Clone AbD54116ad can be used in indirect ELISA to detect canakinumab. It can also be used as a capture antibody to develop a pharmacokinetic (PK) bridging ELISA for canakinumab, together with <a href="#">TZA064</a> or <a href="#">TZA064P</a> as the detection reagent.</p> <p>Protocol: <a href="#">PK bridging ELISA</a></p>
<b>Storage</b>	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	<p>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 <a href="http://bio-rad.com/en-us/trademarks">bio-rad.com/en-us/trademarks</a> for details.</p> <p>His-tag is a registered trademark of EMD Biosciences.</p> <p>Ilaris is a trademark of Novartis AG.</p>

<b>Health And Safety Information</b>	Material Safety Datasheet documentation #20479 available at: <a href="https://www.bio-rad-antibodies.com/SDS/TZA063">https://www.bio-rad-antibodies.com/SDS/TZA063</a> 20479
<b>Licensed Use</b>	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.
<b>Regulatory</b>	For research purposes only
<b>Technical Advice</b>	Recommended protocols for coupling a Fab antibody with a SpyTag to a SpyCatcher can be found at <a href="#">SpyTag and SpyCatcher Products</a> , and further information about HuCAL recombinant antibody technology can be found in the <a href="#">HuCAL Antibodies Technical Manual</a>

## Related Products

### Recommended Useful Reagents

[HUMAN ANTI CANAKINUMAB \(TZA064\)](#)  
[HUMAN ANTI CANAKINUMAB \(HCA417\)](#)  
[HUMAN ANTI CANAKINUMAB \(HCA418\)](#)  
[HUMAN ANTI CANAKINUMAB \(HCA419\)](#)  
[HISPEC ASSAY DILUENT \(BUF049A\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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](https://www.bio-rad-antibodies.com/datasheets)  
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