

Datasheet: TZA0112

BATCH NUMBER 171092

Description:	HUMAN ANTI CANAKINUMAB (DRUG/TARGET COMPLEX)
Specificity:	CANAKINUMAB DRUG/TARGET COMPLEX
Other names:	ILARIS
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD54142
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 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

Immunogen	Canakinumab/IL-1 beta complex
Specificity	<p>Human Anti-Canakinumab (Drug/Target Complex) Antibody, clone AbD54142 specifically recognizes the antibody drug canakinumab when in complex with its target, the human interleukin-1 beta (IL-1β). It does not recognize free canakinumab nor unbound IL-1β.</p> <p>The monovalent Fab format of this antibody, clone AbD54142ad (TZA0112) is tagged with a SpyTag2 at the C-terminus of the Fab heavy chain, enabling the user to couple it to a SpyCatcher reagent for conversion to alternative formats in less than one hour. This antibody is also available as a bivalent Fab antibody pre-coupled to the HRP-conjugated BiSpyCatcher2 (TZC002P) under product code TZA0112P for direct detection of the Canakinumab/ IL-1β complex in bioanalysis assays.</p> <p>Clone AbD54142 can be used in pharmacokinetic (PK) antigen capture format assays to measure canakinumab that has been captured via immobilized IL-1β. It is ideal for bioanalytical assays to measure the level of drug or biosimilar in complex with the IL-1β target.</p> <p>Canakinumab (trade name Ilaris) is a fully humanized monoclonal IgG1/kappa antibody with allotype G1m3. It binds to interleukin-1 beta (IL-1β) 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.</p>
Affinity	The monovalent intrinsic affinity of AbD54142ad was measured as $K_D = 3.3$ nM by real time, label free molecular interaction analysis on immobilized human IL-1 beta/canakinumab complex.
ELISA	Clone AbD54142ad may be used in an indirect ELISA to detect the human IL-1 beta/canakinumab complex or to detect canakinumab bound to immobilized IL-1 beta.
Storage	<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>
Guarantee	12 months from date of despatch
Acknowledgements	<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 bio-rad.com/en-us/trademarks for details.</p> <p>His-tag is a registered trademark of EMD Biosciences.</p> <p>Ilaris is a trademark of Novartis AG.</p>

Health And Safety Information	Material Safety Datasheet documentation #20479 available at: https://www.bio-rad-antibodies.com/SDS/TZA0112
Licensed Use	For <i>in vitro</i> research purposes only, unless otherwise specified in writing by 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

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

[HUMAN ANTI CANAKINUMAB \(HCA417\)](#)

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

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

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

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

[HUMAN ANTI CANAKINUMAB:HRP \(TZA064P\)](#)

[HUMAN ANTI CANAKINUMAB \(DRUG/TARGET COMPLEX\):HRP \(TZA0112P\)](#)

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

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