

Datasheet: TZA063 BATCH NUMBER 169858

Description:	HUMAN ANTI CANAKINUMAB	
Specificity:	CANAKINUMAB	
Other names:	llaris	
Format:	Purified	
Product Type:	Monoclonal Antibody	
Clone:	AbD54116	
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	Antibody concentration 0.5 mg/ml	

Concentrations

Immunogen	Canakinumab
Specificity	Human Anti-Canakinumab Antibody, clone AbD54116ad 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.
	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 (TZA064) as the detection antibody.
	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 SpyCatchers available in our catalog.
	Canakinumab (trade name llaris) is a fully humanized monoclonal $lgG1/kappa$ antibody with allotype $G1m3$. It binds to interleukin-1 beta ($lL-1\beta$) to neutralize up-regulated lg 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 monovalent intrinsic affinity of AbD54116ad was measured as $K_D = 9.6$ nM by real time, label free molecular interaction analysis on immobilized canakinumab.
ELISA	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

Health And Safety Information	Material Safety Datasheet documentation #20479 available at: https://www.bio-rad-antibodies.com/SDS/TZA063 20479		
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 (TZA064)
HUMAN ANTI CANAKINUMAB (HCA417)
HUMAN ANTI CANAKINUMAB (HCA418)
HUMAN ANTI CANAKINUMAB (HCA419)
HISPEC ASSAY DILUENT (BUF049A)

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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 'M434023:250122'

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