Datasheet: TZA0112P

BATCH NUMBER 171093

Description:	HUMAN ANTI CANAKINUMAB (DRUG/TARGET COMPLEX):HRP
Specificity:	CANAKINUMAB DRUG/TARGET COMPLEX
Other names:	ILARIS
Format:	HRP
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 bivalent human recombinant Fab (lambda light chain) generated by coupling of the monovalent SpyTagged Fab TZA0112 with a HRP conjugated BiSpyCatcher version 2 (TZC002P). 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

Antibody concentration 0.5 mg/ml

Concentrations	
Immunogen	Canakinumab/IL-1 beta complex
Specificity	**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. 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. 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. 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.
Affinity	The monovalent intrinsic affinity of AbD54142pap 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 AbD54142pap may be used in a direct ELISA to detect the human IL-1 beta/canakinumab complex or as a detection reagent for canakinumab captured via immobilised IL-1 beta.
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	

Health And Safety Information	Material Safety Datasheet documentation #20479 available at: https://www.bio-rad-antibodies.com/SDS/TZA0112P
Licensed Use	For *in vitro* 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) (TZA0112)

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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