Datasheet: HCA274

BATCH NUMBER 172172

Description:	HUMAN ANTI GOLIMUMAB (DRUG/TARGET COMPLEX)
Specificity:	GOLIMUMAB DRUG/TARGET COMPLEX
Other names:	SIMPONI®
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD25705
Isotype:	HuCAL Fab monovalent
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 *E. coli*. The antibody is tagged with a DYKDDDDK tag and a HIS-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

0.09% Sodium Azide (NaN_3)

Approx. Protein Concentrations

Antibody concentration 0.5 mg/ml

Immunogen	Golimumab/TNFα complex
Specificity	**Human anti golimumab (drug/target complex), clone AbD25705** is an affinity matured recombinant antibody in monovalent Fab format that specifically recognizes golimumab when in complex with its target, tumor necrosis factor alpha (TNFα). Clone AbD25705 does not recognize unbound golimumab nor free TNFα. The antibody can be used in a pharmacokinetic (PK) antigen capture format assay to measure golimumab that has been captured via immobilized human TNFα. It is ideal for bioanalytical assays to measure the level of drug or biosimilar in complex with the TNFα target. Golimumab, marketed under the brand name Simponi®, is a recombinant human IgG1/kappa monoclonal antibody approved for the treatment of rheumatoid arthritis, psoriatic arthritis and ankylosing spondylitis. This therapeutic antibody, directed against TNFα, acts by blocking the binding of TNFα to its receptors, resulting in a down-regulation of the inflammatory response associated with autoimmune diseases. View a summary of all anti-golimumab antibodies
Affinity	The intrinsic affinity of the monovalent form of Human anti Golimumab (Drug/target complex) antibody, clone AbD25705 is K_D = 6 nM as measured by real time, label free molecular interaction analysis on immobilized golimumab in complex with human TNFα.
ELISA	This product may be used in an indirect ELISA to detect the golimumab/TNFα complex or to detect golimumab bound to immobilized TNFα. Protocol: PK antigen capture ELISA to measure bound drug exclusively.
References	1. Harth, S. *et al.* (2019) Generation by phage display and characterization of drug-target complex-specific antibodies for pharmacokinetic analysis of biotherapeutics. MAbs. 11 (1): 178-190.
Storage	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. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
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.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/HCA274
Licensed Use	For *in vitro* research purposes and for commercial applications for the provision of *in vitro*

	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 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)
MOUSE ANTI PENTA HISTIDINE TAG:HRP (MCA5995P)

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
'M430217:240503'

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