Datasheet: HCA289

BATCH NUMBER 151546

Description:	HUMAN ANTI GOLIMUMAB
Specificity:	GOLIMUMAB
Other names:	SIMPONI
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD25455
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

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.01% Thiomersal

Approx. Protein Concentrations

Antibody concentration 0.5 mg/ml

Immunogen

Golimumab

Specificity	**Human Anti-Golimumab Antibody, clone AbD25455** is an anti-idiotypic antibody that specifically recognizes the monoclonal antibody drug golimumab. This antibody binds to both free golimumab and to golimumab bound to its target tumor necrosis factor alpha (TNFα). Clone AbD25455 does not inhibit the binding of golimumab to its target TNFα and can be used to measure total golimumab and biosimilar products in bioanalytical assays. Clone AbD25455 is an affinity-matured variant of clone AbD20897 (HCA242), with about 7-fold affinity improvement. A pair of anti golimumab antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug. This antibody, in monovalent Fab format, is recommended as the capture antibody, paired with an antibody in full immunoglobulin format, clone AbD25451_hIgG1 (HCA290), as the detection antibody. 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 monovalent intrinsic affinity of AbD25455 was measured as K_D = 0.9 nM by real time, label free molecular interaction analysis on immobilized golimumab
ELISA	Clone AbD25455 can be used in a direct or indirect ELISA system or as capture antibody for golimumab in a bridging ELISA together with HCA290 (AbD25455_hIgG1) as the detection reagent. Protocol: PK bridging ELISA to measure total drug
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): 178-90.
Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	12 months from date of despatch
Acknowledgements	Sold under license of U.S. Patents 6753136, 7785859 and 8273688 and corresponding patents. This antibody was developed by Bio-Rad, Zeppelinstr. 4, 82178 Puchheim, Germany. Simponi is a registered trademark of Janssen Biotech, Inc. in the USA and Merck & Co, Inc. in Europe. His-tag is a registered trademark of EMD Biosciences.

Health And Safety Information	Material Safety Datasheet documentation #10094 available at: https://www.bio-rad-antibodies.com/SDS/HCA289 10094
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

LYNX RAPID HRP ANTIBODY CONJUGATION KIT (LNK001P)
MOUSE ANTI HUMAN IgG (Fc) CH2 DOMAIN:HRP (MCA647P)
MOUSE ANTI PENTA HISTIDINE TAG:HRP (MCA5995P)
HUMAN ANTI GOLIMUMAB (HCA290)
HUMAN ANTI GOLIMUMAB:HRP (HCA290P)

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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
'M371729:200612'

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