

Datasheet: HCA290

BATCH NUMBER 164694

Description:	HUMAN ANTI GOLIMUMAB
Specificity:	GOLIMUMAB
Other names:	SIMPONI
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD25451_hlgG1
Isotype:	IgG1
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	Human IgG1 antibody (lambda light chain) selected from the HuCAL phage display library and expressed in a human cell line. This antibody is supplied as a liquid.
Preparation	Purified IgG prepared by affinity chromatography on Protein A.
Buffer Solution	Phosphate buffered saline.
Preservative Stabilisers	0.01% Thiomersal.
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml.
Immunogen	Golimumab
Specificity	Human Anti-Golimumab Antibody, clone AbD25451_hlgG1 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 (TNF α). Clone AbD25451_hlgG1 does not inhibit the binding of golimumab to its target TNF α and can be used to measure total golimumab and biosimilar products in bioanalytical assays.

Clone AbD25451_hlgG1 is an affinity-matured variant of AbD20897 ([HCA242](#)), with about 17-fold affinity improvement.

A pair of anti golimumab antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure total drug. This antibody, in full immunoglobulin format, is recommended as the detection antibody paired with clone AbD25455 ([HCA289](#)) as the capture 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 TNF α , acts by blocking the binding of TNF α 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 antibody, clone AbD25451_hlgG1 is $K_D = 0.4$ nM as measured by real time, label free molecular interaction analysis on immobilized Golimumab.
ELISA	This product may be used in a direct or indirect ELISA or as detection antibody for golimumab in a bridging ELISA together with HCA289 (AbD25455, Fab-FH) as the capture reagent. Protocol: PK bridging ELISA to measure total drug .
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. Simponi is a trademark of Janssen Biotech, Inc. in the USA and Merck & Co, Inc. in Europe.
Health And Safety Information	Material Safety Datasheet documentation #10094 available at: https://www.bio-rad-antibodies.com/SDS/HCA290

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 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 HUMAN IgG \(Fc\) CH2 DOMAIN:HRP \(MCA647P\)](#)

[LYNX RAPID HRP ANTIBODY CONJUGATION KIT \(LNK001P\)](#)

[HUMAN ANTI GOLIMUMAB \(HCA289\)](#)

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