

## Datasheet: HCA290P

**BATCH NUMBER 166120**

<b>Description:</b>	HUMAN ANTI GOLIMUMAB:HRP
<b>Specificity:</b>	GOLIMUMAB
<b>Other names:</b>	SIMPONI
<b>Format:</b>	HRP
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD25451_hIgG1
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.

<b>Product Form</b>	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.
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A.
<b>Source</b>	HKB-11
<b>Buffer Solution</b>	Phosphate buffered saline.
<b>Preservative Stabilisers</b>	0.01% Thiomersal.
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml.
<b>Immunogen</b>	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 $\alpha$ ). Clone AbD25451\_hlgG1 does not inhibit the binding of golimumab to its target TNF $\alpha$  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 $\alpha$ , acts by blocking the binding of TNF $\alpha$  to its receptors, resulting in a down-regulation of the inflammatory response associated with autoimmune diseases.

[View a summary of all anti-golimumab antibodies](#)

<b>Affinity</b>	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.
<b>ELISA</b>	This product may be used in a direct ELISA or as detection antibody for golimumab in a bridging ELISA together with <a href="#">HCA289</a> (AbD25455, Fab-FH) as the capture reagent. Protocol: <a href="#">PK bridging ELISA to measure total drug</a> .
<b>Storage</b>	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.
<b>Guarantee</b>	12 months from date of despatch.
<b>Acknowledgements</b>	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 <a href="#">bio-rad.com/en-us/trademarks</a> for details. Simponi is a trademark of Janssen Biotech, Inc. in the USA and Merck & Co, Inc. in Europe.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10094 available at: <a href="https://www.bio-rad-antibodies.com/SDS/HCA290P10094">https://www.bio-rad-antibodies.com/SDS/HCA290P10094</a>

<b>Licensed Use</b>	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.
<b>Regulatory</b>	For research purposes only.
<b>Technical Advice</b>	Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the <a href="#">HuCAL Antibodies Technical Manual</a> .

## Related Products

### Recommended Useful Reagents

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

[HISPEC ASSAY DILUENT \(BUF049A\)](#)

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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](https://bio-rad-antibodies.com/datasheets)  
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