

## Datasheet: HCA287P

<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>	AbD25418_hlgG1
<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 (kappa light chain) selected from the HuCAL® phage display library and expressed in a human cell line. Conjugated to horseradish peroxidase (HRP) – liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.01% Thiomersal
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml
<b>Immunogen</b>	Golimumab
<b>Specificity</b>	<b>Human Anti-Golimumab Antibody, clone AbD25418_hlgG1</b> is a paratope specific, inhibitory anti-idiotypic antibody that specifically recognizes the free human monoclonal

antibody golimumab and inhibits binding to its target TNF $\alpha$ .

Clone AbD25418\_hlgG1 does not recognize free human TNF $\alpha$  or golimumab in complex with human TNF $\alpha$ . This antibody can be used to measure free golimumab and biosimilar products in bioanalytical assays.

Clone AbD25418\_hlgG1 is an affinity-matured variant of AbD20692 ([HCA241](#)), with about a 21-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 full immunoglobulin format, is recommended as the detection antibody paired with clone AbD25429 ([HCA286](#)) in monovalent Fab format 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 monovalent intrinsic affinity of AbD25418 was measured as $K_D = 0.13$ nM 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="#">HCA286</a> (AbD25429, Fab-FH) as the capture reagent. Protocol: <a href="#">PK bridging ELISA to measure free 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="http://bio-rad.com/en-us/trademarks">bio-rad.com/en-us/trademarks</a> for details. Simponi is a registered 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: 10094: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10094.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10094.pdf</a>
<b>Licensed Use</b>	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

[HUMAN ANTI GOLIMUMAB \(HCA286\)](#)

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

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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)

'M391800:211015'

**Printed on 04 Apr 2022**

---

© 2022 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)