

## 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_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.

### Product Form

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

### 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 0.1 mg/ml

### Immunogen

Golimumab

### Specificity

**Human Anti-Golimumab Antibody, clone AbD25418\_hIgG1** 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\_hIgG1 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\_hIgG1 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](#)

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<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>	Store at -70°C. Storage in frost-free freezers is not recommended. This product should be stored undiluted.
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	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
<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
<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>

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## Related Products

### Recommended Useful Reagents

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

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

'M335244:181204'

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**Printed on 11 Oct 2019**

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