

## Datasheet: HCA245

**BATCH NUMBER 159492**

<b>Description:</b>	HUMAN ANTI GOLIMUMAB (DRUG/TARGET COMPLEX)
<b>Specificity:</b>	GOLIMUMAB DRUG/TARGET COMPLEX
<b>Other names:</b>	SIMPONI
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD20893_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 selected from the HuCAL® phage display library and expressed in a human cell line. This antibody is supplied as a liquid. Simponi is a registered trademark of Janssen Biotech, Inc. in the USA and Merck & Co, Inc. in Europe.
<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>	Antibody concentration 0.5 mg/ml
<b>Immunogen</b>	Golimumab.

<b>Specificity</b>	<p><b>Human anti golimumab (drug/target complex) antibody, clone AbD20893_hlgG1</b> is a Type 3 anti-idiotypic antibody that specifically recognizes golimumab when bound to tumor necrosis factor alpha (TNF<math>\alpha</math>) i.e. the drug/target complex. Clone AbD20893_hlgG1 does not recognize unbound golimumab nor free TNF<math>\alpha</math>. Human anti golimumab (drug/target complex) antibody, clone AbD20893_hlgG1 may be used to measure golimumab when captured by immobilized human TNF<math>\alpha</math> or golimumab/TNF<math>\alpha</math> levels in serum from patients.</p> <p>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<math>\alpha</math>, acts by blocking the binding of TNF<math>\alpha</math> to its receptors, resulting in a down-regulation of the inflammatory response associated with autoimmune diseases.</p> <p><a href="#">View a summary of all anti-golimumab antibodies</a></p>
<b>Affinity</b>	The monovalent intrinsic affinity of AbD20893_hlgG1 was measured as $K_D = 53$ nM by real time, label free molecular interaction analysis on immobilized golimumab in complex with human TNF $\alpha$ .
<b>ELISA</b>	<p>When conjugated to HRP, this product may be used in a direct ELISA to detect the golimumab/TNF<math>\alpha</math> complex or to detect golimumab bound to immobilized TNF<math>\alpha</math>.</p> <p>Protocol: <a href="#">PK antigen capture ELISA to measure bound drug exclusively</a></p>
<b>References</b>	1. Harth, S. <i>et al.</i> (2019) Generation by phage display and characterization of drug-target complex-specific antibodies for pharmacokinetic analysis of biotherapeutics. <a href="#">MAbs. 11 (1): 178-90.</a>
<b>Storage</b>	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	Sold under license of U.S. Patents 7785859 and 8273688 and corresponding patents. This antibody was developed by Bio-Rad.
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10094 available at: <a href="https://www.bio-rad-antibodies.com/SDS/HCA245">https://www.bio-rad-antibodies.com/SDS/HCA245</a></p> <p>10094</p>
<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

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**Technical Advice** Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the [HuCAL Antibodies Technical Manual](#)

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## Related Products

### Recommended Useful Reagents

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

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

[LYNX RAPID HRP ANTIBODY CONJUGATION KIT \(LNK002P\)](#)

[LYNX RAPID HRP ANTIBODY CONJUGATION KIT \(LNK003P\)](#)

[LYNX RAPID HRP ANTIBODY CONJUGATION KIT \(LNK004P\)](#)

[LYNX RAPID HRP ANTIBODY CONJUGATION KIT \(LNK005P\)](#)

[LYNX RAPID HRP ANTIBODY CONJUGATION KIT \(LNK006P\)](#)

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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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