

Datasheet: HCA240

**BATCH NUMBER 164656**

<b>Description:</b>	HUMAN ANTI GOLIMUMAB
<b>Specificity:</b>	GOLIMUMAB
<b>Other names:</b>	SIMPONI
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD20710
<b>Isotype:</b>	HuCAL Fab monovalent
<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

A monovalent human recombinant Fab (kappa light chain) selected from the HuCAL phage display library, expressed in *E. coli*. The antibody is tagged with a DYKDDDDK tag and a HIS-tag (HHHHHH) at the C-terminus of the antibody heavy chain. This antibody is supplied as a liquid.

### Preparation

Metal chelate affinity chromatography.

### Buffer Solution

Phosphate buffered saline.

### Preservative Stabilisers

0.01% Thiomersal.

### Approx. Protein Concentrations

Antibody concentration 0.5 mg/ml.

### Immunogen

Golimumab.

**Specificity** **Human anti golimumab antibody, clone AbD20710** is a Type 1 anti-idiotypic antibody that recognizes free golimumab but not the drug/tumor necrosis factor alpha (TNF $\alpha$ ) complex. Clone AbD20710 inhibits the binding of golimumab to TNF $\alpha$  and can be used to measure free golimumab levels in serum from patients, or for pharmacokinetic (PK) assay development.

An affinity matured variant of HCA240 is available with about 2-fold affinity improvement, clone AbD25429 ([HCA286](#)).

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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**Affinity** The intrinsic affinity of the monovalent form of Human anti Golimumab antibody, clone AbD20710 is  $K_D = 2.3$  nM as measured by real time, label free molecular interaction analysis on immobilized Golimumab.

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**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.

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**Guarantee** 12 months from date of despatch.

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Simponi is a trademark of Janssen Biotech, Inc. in the USA and Merck & Co, Inc. in Europe.  
His-tag is a trademark of EMD Biosciences.

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**Health And Safety Information** Material Safety Datasheet documentation #10094 available at: <https://www.bio-rad-antibodies.com/SDS/HCA240>  
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**Licensed Use** 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.

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**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 Secondary Antibodies

Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA5995...) [HRP](#)

### Recommended Useful Reagents

[HUMAN ANTI GOLIMUMAB \(HCA241\)](#)

[HUMAN ANTI GOLIMUMAB \(HCA242\)](#)

[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 \(LNK006P\)](#)

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

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