

## Datasheet: HCA240

|                      |                      |
|----------------------|----------------------|
| <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.

### Source

*E. coli*

### Buffer Solution

Phosphate buffered saline.

### Preservative Stabilisers

0.09% Sodium Azide (NaN<sub>3</sub>)

### Approx. Protein Concentrations

Antibody concentration 0.5 mg/ml.

|                                      |   |
|--------------------------------------|---|
| <b>Immunogen</b>                     | Golimumab.  |
| <b>Specificity</b>                   | <p><b>Human anti golimumab antibody, clone AbD20710</b> is a Type 1 anti-idiotypic antibody that recognizes free golimumab but not the drug/tumor necrosis factor alpha (TNF<math>\alpha</math>) complex. Clone AbD20710 inhibits the binding of golimumab to TNF<math>\alpha</math> and can be used to measure free golimumab levels in serum from patients, or for pharmacokinetic (PK) assay development.</p> <p>An affinity matured variant of HCA240 is available with about 2-fold affinity improvement, clone AbD25429 (<a href="#">HCA286</a>).</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 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.  |
| <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>              | <p>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.</p> <p>Simponi is a trademark of Janssen Biotech, Inc. in the USA and Merck &amp; Co, Inc. in Europe.</p> <p>His-tag is a trademark of EMD Biosciences.</p>   |
| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/HCA240">https://www.bio-rad-antibodies.com/SDS/HCA240</a><br>10040   |
| <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.   |

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

---

## 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 \(BUF049A\)](#)

**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)

'M430177:240503'

**Printed on 03 May 2024**

---

© 2024 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)