

## Datasheet: HCA216

**BATCH NUMBER 174530**

|                      |                       |
|----------------------|-----------------------|
| <b>Description:</b>  | HUMAN ANTI INFLIXIMAB |
| <b>Specificity:</b>  | INFLIXIMAB            |
| <b>Other names:</b>  | REMICADE®             |
| <b>Format:</b>       | Purified              |
| <b>Product Type:</b> | Monoclonal Antibody   |
| <b>Clone:</b>        | AbD19376_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. |
| <b>Preparation</b>                    | Purified IgG prepared by affinity chromatography on Protein A.                                        |
| <b>Source</b>                         | HKB-11                                                                                                |
| <b>Buffer Solution</b>                | Phosphate buffered saline                                                                             |
| <b>Preservative Stabilisers</b>       | 0.09% Sodium Azide (NaN <sub>3</sub> )                                                                |
| <b>Approx. Protein Concentrations</b> | Antibody concentration 0.5 mg/ml.                                                                     |
| <b>Immunogen</b>                      | Infliximab                                                                                            |

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|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Specificity</b>      | <p><b>Human anti Infliximab, clone AbD19376_hlgG1</b>, is an anti-idiotypic antibody that binds to both free infliximab and to infliximab bound to its target, TNF<math>\alpha</math>. Clone AbD19376_hlgG1 does not inhibit the binding of infliximab to TNF<math>\alpha</math>. It can be used in bioanalytical assays to measure the levels of infliximab and biosimilar products, such as Inflectra and Renflexis, in patient samples.</p> <p>Clone AbD19376_hlgG1 binds to an epitope outside the infliximab binding site. This epitope is shared with other chimeric antibodies that are highly homologous to infliximab including the chimeric antibody cetuximab but not rituximab.</p> <p>Human anti Infliximab, clone AbD19376_hlgG1 is a fully human antibody and may be used to develop and calibrate immune response assays to measure the anti-drug antibody (ADA) response in patient sera. In the HRP-conjugated format, clone AbD19376_IgG1 is suitable as a detection antibody in pharmacokinetic (PK) assays to measure total infliximab levels (free drug, partially bound and fully bound).</p> <p>Infliximab (branded as Remicade®) is a chimeric monoclonal antibody drug (IgG1/kappa) that has been approved for treatment of psoriasis, Crohn's disease, ankylosing spondylitis, psoriatic arthritis, rheumatoid arthritis, and ulcerative colitis.</p> <p>Infliximab is directed against Tumor Necrosis Factor Alpha (TNF<math>\alpha</math>) and acts by blocking the binding of this cytokine to its receptors. Infliximab also induces apoptosis of TNF<math>\alpha</math> expressing T-lymphocytes.</p> <p><a href="#">View a summary of all anti-infliximab antibodies.</a></p> |
| <b>Affinity</b>         | The monovalent intrinsic affinity of this antibody was measured as $K_D=0.7$ nM by real time, label-free molecular interaction analysis on immobilized infliximab.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ELISA</b>            | <p>This product may be used in a direct ELISA, as a bridging antibody in ADA assays or as a detection antibody in an Infliximab bridging ELISA when conjugated to HRP together with <a href="#">HCA212</a> or <a href="#">HCA214</a> as the capture reagent.</p> <p>Protocol: <a href="#">PK bridging ELISA to measure total drug</a></p> <p>Protocol: <a href="#">ADA bridging ELISA</a></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>References</b>       | 1. Kashiwagi, N. <i>et al.</i> (0) Method for measuring anti-drug antibody <a href="#">US Patent Application US2017315118A1</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> | This product and/or its use is covered by claims of U.S. patents, and/or pending U.S. and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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Remicade is a registered trademark of Janssen Biotech Inc. Inflectra is a registered trademark of Hospira, a Pfizer Company. RENFLEXIS is a trademark of Merck Sharp & Dohme Corp.

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|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Health And Safety Information | Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/HCA216">https://www.bio-rad-antibodies.com/SDS/HCA216</a>                                                                                                                |
| Licensed Use                  | 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. |
| Regulatory                    | For research purposes only.                                                                                                                                                                                                                                                           |
| Technical Advice              | Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the <a href="#">HuCAL Antibodies Technical Manual</a>                                                                                                                       |

## Related Products

### Recommended Useful Reagents

[RECOMBINANT HUMAN TNF ALPHA \(PHP051\)](#)  
[MOUSE ANTI HUMAN IgG \(Fc\) CH2 DOMAIN:HRP \(MCA647P\)](#)  
[LYNX RAPID HRP ANTIBODY CONJUGATION KIT \(LNK002P\)](#)  
[HUMAN ANTI INFLIXIMAB \(HCA212\)](#)  
[HUMAN ANTI INFLIXIMAB \(HCA214\)](#)  
[HUMAN ANTI INFLIXIMAB \(HCA215\)](#)  
[HUMAN ANTI INFLIXIMAB \(HCA213\)](#)  
[HISPEC ASSAY DILUENT \(BUF049A\)](#)

Product inquiries: [www.bio-rad-antibodies.com/technical-support](https://www.bio-rad-antibodies.com/technical-support)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)  
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