

## Datasheet: HCA202G

|                      |                       |
|----------------------|-----------------------|
| <b>Description:</b>  | HUMAN ANTI ADALIMUMAB |
| <b>Specificity:</b>  | ADALIMUMAB            |
| <b>Other names:</b>  | HUMIRA                |
| <b>Format:</b>       | Purified              |
| <b>Product Type:</b> | Monoclonal Antibody   |
| <b>Clone:</b>        | AbD18654              |
| <b>Isotype:</b>      | HuCAL Fab monovalent  |
| <b>Quantity:</b>     | 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 (lambda 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 1.0 mg/ml

|                                      |   |
|--------------------------------------|---|
| <b>Immunogen</b>                     | Adalimumab  |
| <b>Specificity</b>                   | <p><b>Human Anti-Adalimumab Antibody, clone AbD18654</b>, is a high affinity anti-idiotypic antibody that specifically recognizes the monoclonal antibody drug adalimumab and inhibits binding to its target, TNF<math>\alpha</math>. The antibody can be used to measure the levels of adalimumab and biosimilar products in bioanalytical assays.</p> <p>Clone AbD18654 is recommended as a capture antibody in a pharmacokinetic (PK) bridging assay when used in combination with HRP-conjugated detection antibody (<a href="#">HCA204P</a>). The assay will measure free drug, as both antibodies are inhibitory.</p> <p>Adalimumab (branded as Humira) is a fully human monoclonal antibody (IgG1/kappa) approved for the treatment of ankylosing spondylitis, Crohn's disease, psoriasis and several forms of arthritis. The antibody is specific for TNF<math>\alpha</math>, and acts by blocking the activation of TNF receptors by TNF<math>\alpha</math>. This inactivation down-regulates the inflammatory reactions associated with autoimmune diseases.</p> <p><a href="#">View a summary of all Anti-Adalimumab Antibodies.</a></p> |
| <b>Affinity</b>                      | The intrinsic affinity of the monovalent form of this antibody is $K_D=0.15$ nM as measured by real time, label-free molecular interaction analysis on immobilized adalimumab.  |
| <b>ELISA</b>                         | <p>This product may be used in an indirect ELISA or in an ELISA bridging assay as a capture antibody together with <a href="#">HCA204P</a> as the detection reagent.</p> <p>Protocol: <a href="#">PK bridging ELISA to measure free drug.</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): 178-190.</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>              | <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>Humira is a trademark of Abbott Laboratories.</p> <p>His-tag is a trademark of EMD Biosciences.</p>  |
| <b>Health And Safety Information</b> | <p>Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/HCA202G">https://www.bio-rad-antibodies.com/SDS/HCA202G</a></p> <p>10040</p>  |

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

## Related Products

### Recommended Secondary Antibodies

|   |   |
|---|---|
| Goat Anti Synthetic Peptide HISTIDINE TAG (AHP1656...)  | <a href="#">Biotin</a>                              |
| Rat Anti Synthetic Peptide DYKDDDDK TAG (MCA4764...)    | <a href="#">HRP</a>                                 |
| Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA5995...) | <a href="#">HRP</a>                                 |
| Rabbit Anti Synthetic Peptide DYKDDDDK TAG (AHP1074...) | <a href="#">HRP</a>                                 |
| Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA1396...) | <a href="#">Alk. Phos.</a> , <a href="#">Biotin</a> |

### Recommended Useful Reagents

[MOUSE ANTI HUMAN IgG \(Fc\) CH2 DOMAIN:HRP \(MCA647P\)](#)  
[HUMAN ANTI ADALIMUMAB:HRP \(HCA204P\)](#)  
[HUMAN ANTI ADALIMUMAB \(HCA204\)](#)  
[HISPEC ASSAY DILUENT \(BUF049A\)](#)  
[GOAT ANTI HUMAN IgG F\(ab'\)<sub>2</sub>:HRP \(STAR126P\)](#)  
[RECOMBINANT HUMAN TNF ALPHA \(PHP051\)](#)  
[LYNX RAPID HRP ANTIBODY CONJUGATION KIT \(LNK002P\)](#)

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|----------------------------------|---|------------------|---|---------------|---|
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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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