

## Datasheet: HCA202

<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>	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 (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 0.5 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 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>	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. Protocol: <a href="#">PK bridging ELISA to measure free drug.</a>
<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>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/HCA202">https://www.bio-rad-antibodies.com/SDS/HCA202</a>

<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...) [Biotin](#)  
 Rat Anti Synthetic Peptide DYKDDDDK TAG (MCA4764...) [HRP](#)  
 Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA5995...) [HRP](#)  
 Rabbit Anti Synthetic Peptide DYKDDDDK TAG (AHP1074...) [HRP](#)  
 Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA1396...) [Alk. Phos.](#), [Biotin](#)

### 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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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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