

## Datasheet: HCA202

**BATCH NUMBER 149128**

<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

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

0.01% Thiomersal

### Approx. Protein Concentrations

Antibody concentration 0.5 mg/ml

### Immunogen

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 monovalent intrinsic affinity of this antibody was measured as $K_D=0.15$ nM 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>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	<p>Sold under license of U.S. Patents 6753136, 7785859 and 8273688 and corresponding patents. This antibody was developed by Bio-Rad, Zeppelinstr. 4, 82178 Puchheim, Germany.</p> <p>Humira is a registered trademark of Abbott Laboratories.</p> <p>His-tag is a registered trademark of EMD Biosciences.</p>
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10094 available at: <a href="https://www.bio-rad-antibodies.com/SDS/HCA20210094">https://www.bio-rad-antibodies.com/SDS/HCA20210094</a></p>
<b>Licensed Use</b>	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

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)  
'M371615:200612'

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