

## Datasheet: HCA204P

**BATCH NUMBER 164033**

<b>Description:</b>	HUMAN ANTI ADALIMUMAB:HRP
<b>Specificity:</b>	ADALIMUMAB
<b>Other names:</b>	HUMIRA
<b>Format:</b>	HRP
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD18655_hIgG1
<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 (lambda light chain) selected from the HuCAL phage display library and expressed in a human cell line. Conjugated to horseradish peroxidase (HRP) - liquid.
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.01% Thiomersal
<b>Approx. Protein Concentrations</b>	Total protein concentration 1.0 mg/ml
<b>Immunogen</b>	Adalimumab
<b>Specificity</b>	<b>Human Anti-Adalimumab, clone AbD18655_hIgG1</b> , is an ultra-high affinity anti-idiotypic

antibody that specifically recognizes adalimumab monoclonal antibody and inhibits the binding of adalimumab to its target, TNF $\alpha$ . Clone AbD18655\_hIgG1 can be used to measure the levels of adalimumab and biosimilar products using bioanalytical assays. It may also be used to develop and calibrate immune response assays to measure the anti-drug antibody (ADA) response in patient serum.

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 $\alpha$ , and acts by blocking the activation of TNF receptors by TNF $\alpha$ . This inactivation down-regulates the inflammatory reactions associated with autoimmune diseases.

[View a summary of all Anti-Adalimumab Antibodies.](#)

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<b>Affinity</b>	The intrinsic affinity of the monovalent form of this antibody in an unconjugated format is $K_D=0.06$ nM as measured by real time, label-free molecular interaction analysis on immobilized adalimumab.
<b>ELISA</b>	This product may be used as a detection reagent in a sandwich ELISA together with <a href="#">HCA202</a> as the capture 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>	This product is shipped frozen. When ready to use, thaw and aliquot the sample as needed. Store aliquots at -70°C, if available, otherwise store at -20°C. It is not recommended to keep aliquots at 4°C for more than one week.
<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 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. Humira is a trademark of Abbott Laboratories.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10094 available at: <a href="https://www.bio-rad-antibodies.com/SDS/HCA204P">https://www.bio-rad-antibodies.com/SDS/HCA204P</a> 10094
<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

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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 Useful Reagents

[HUMAN ANTI ADALIMUMAB \(HCA202\)](#)

[RECOMBINANT HUMAN TNF ALPHA \(PHP051\)](#)

[HUMAN ANTI ADALIMUMAB \(HCA203\)](#)

[HUMAN ANTI ADALIMUMAB \(HCA205\)](#)

[HUMAN ANTI ADALIMUMAB \(DRUG/TARGET COMPLEX\) \(HCA207\)](#)

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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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