

## Datasheet: HCA232

**BATCH NUMBER 1803**

<b>Description:</b>	HUMAN ANTI ADALIMUMAB (DRUG/TARGET COMPLEX)
<b>Specificity:</b>	ADALIMUMAB (DRUG/TARGET COMPLEX)
<b>Other names:</b>	HUMIRA®
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD20349_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 (kappa light chain) selected from the HuCAL® phage display library and expressed in a human cell line. This product is supplied as a 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>	Antibody concentration 0.5 mg/ml
<b>Immunogen</b>	Adalimumab.
<b>Specificity</b>	<b>Human anti Adalimumab (drug/target complex), clone AbD20349_hlgG1</b> , is an affinity

matured, Type 3 antibody that specifically recognizes adalimumab complexed with TNF $\alpha$ . It does not recognize the free drug or unbound TNF $\alpha$ . Clone AbD20349\_hIgG1 can be used in assays to measure adalimumab that has been captured via immobilized TNF $\alpha$ , thereby avoiding the bridging assay format. It can also be used to measure the level of the drug/target complex and biosimilar products using bioanalytical assays.

Adalimumab (brand name Humira<sup>®</sup>) is a human monoclonal antibody (IgG1/kappa) approved for the treatment of rheumatoid, psoriatic and juvenile idiopathic arthritis, ankylosing spondylitis, Crohn's disease and ulcerative colitis. This therapeutic antibody is directed against the pro-inflammatory cytokine tumor necrosis factor alpha (TNF $\alpha$ ), blocking its interaction with the p55 (TNFR1, CD120a) and p75 (TNFR2, CD120b) cell surface TNF receptors, resulting in a down-regulation of the abnormal inflammatory response that is characteristic of autoimmune disease.

[View a summary of all anti-adalimumab antibodies.](#)

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<b>Affinity</b>	The monovalent intrinsic affinity of this antibody was measured as $K_D=6.7$ nM by real time, label-free molecular interaction analysis on the immobilized adalimumab/TNF $\alpha$ complex.
<b>ELISA</b>	This product may be used in a direct ELISA to detect the adalimumab/TNF $\alpha$ complex or to detect adalimumab bound to immobilized TNF $\alpha$ . Protocol: <a href="#">PK antigen capture ELISA to measure bound drug exclusively</a>
<b>References</b>	1. Kashiwagi, N. <i>et al.</i> (2017) Method for measuring anti-drug antibody <a href="#">US Patent Application US20170315118A1</a> 2. 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>	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. 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.
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	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. Humira <sup>®</sup> is a registered 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/HCA232">https://www.bio-rad-antibodies.com/SDS/HCA232</a> 10094
<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 Useful Reagents

[HUMAN ANTI ADALIMUMAB \(DRUG/TARGET COMPLEX\) \(HCA231\)](#)

[LYNX RAPID HRP ANTIBODY CONJUGATION KIT \(LNK002P\)](#)

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

[HISPEC ASSAY DILUENT \(BUF049A\)](#)

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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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