

## Datasheet: HCA233

**BATCH NUMBER 1807**

<b>Description:</b>	HUMAN ANTI INFLIXIMAB
<b>Specificity:</b>	INFLIXIMAB
<b>Other names:</b>	Remicade
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD20436_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 (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>	Infliximab
<b>Specificity</b>	<b>Human Anti-Infliximab Antibody, clone AbD20436_hIgG1</b> , is an affinity matured

anti-idiotypic antibody that specifically recognizes free infliximab but not infliximab bound to its target, tumor necrosis factor alpha (TNF $\alpha$ ). It can be used in bioanalytical assays to measure the levels of infliximab and biosimilar products, such as Inflectra and Renflexis, in patient samples.

This antibody inhibits the binding of infliximab to TNF $\alpha$  and can be used as a detection antibody in a pharmacokinetic (PK) bridging ELISA to measure free drug. As it is a fully human antibody, it can also be used to develop and calibrate immune response assays to measure the anti-drug antibody (ADA) response in patient sera.

Infliximab (branded as Remicade) is a chimeric IgG1 kappa monoclonal antibody approved for the treatment of psoriasis, Crohn's disease, ankylosing spondylitis, psoriatic arthritis, rheumatoid arthritis and ulcerative colitis. This therapeutic antibody is directed against TNF $\alpha$  and acts by blocking the binding of TNF $\alpha$  to its receptors, resulting in a down-regulation of the inflammatory response associated with autoimmune diseases.

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

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<b>Affinity</b>	The monovalent intrinsic affinity of this antibody was measured as $K_D=0.12$ nM by real time, label-free molecular interaction analysis on immobilized infliximab.
<b>ELISA</b>	This product may be used in a direct ELISA or as a bridging antibody in ADA assay development. Protocol: <a href="#">PK bridging ELISA to measure free drug</a> Protocol: <a href="#">ADA bridging ELISA</a>
<b>References</b>	1. Lee, M.W. <i>et al.</i> (2016) Comparison of infliximab drug measurement across three commercially available ELISA kits. <a href="#">Pathology. Aug 23. pii: S0031-3025(16)39762-8. [Epub ahead of print]</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. Remicade is a registered trademark of Janssen Biotech Inc. Inflectra is a registered trademark of Hospira, a Pfizer Company. RENFLEXIS is a trademark of Merck Sharp & Dohme Corp.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10094 available at: <a href="https://www.bio-rad-antibodies.com/SDS/HCA233">https://www.bio-rad-antibodies.com/SDS/HCA233</a> 10094

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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 INFLIXIMAB \(HCA234\)](#)

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

[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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