

## Datasheet: HCA213G

**BATCH NUMBER 170843**

<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>	AbD17841_hIgG1
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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.
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A
<b>Source</b>	HKB-11
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	Antibody concentration 1.0 mg/ml
<b>Immunogen</b>	Infliximab

**Specificity**

**Human Anti-Infliximab, clone AbD17841\_hlgG1** is an anti-idiotypic antibody that specifically recognizes the infliximab monoclonal antibody and inhibits the binding of infliximab to its target. It can be used in bioanalytical assays to measure the levels of infliximab and biosimilar products, such as Inflectra and Renflexis, in patient samples.

Human anti Infliximab, clone AbD17841\_hlgG1 is a fully human antibody and may be used to develop and calibrate immune response assays to measure the anti-drug antibody (ADA) response in patient sera. In the HRP-conjugated format, clone AbD17841\_IgG1 is suitable as a detection antibody in pharmacokinetic (PK) assays.

Infliximab (branded as Remicade) is a chimeric monoclonal antibody drug (IgG1/kappa) that has been approved for treatment of psoriasis, Crohn's disease, ankylosing spondylitis, psoriatic arthritis, rheumatoid arthritis, and ulcerative colitis.

Infliximab is directed against Tumor Necrosis Factor Alpha (TNF $\alpha$ ) and acts by blocking the binding of this cytokine to its receptors. Infliximab also induces apoptosis of TNF $\alpha$  expressing T-lymphocytes.

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

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**Affinity**

The monovalent intrinsic affinity of this antibody is  $K_D=1.8$  nM as measured by real time, label-free molecular interaction analysis on immobilized Infliximab.

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**ELISA**

This product may be used in a direct ELISA, as a bridging antibody in ADA assays or as a detection antibody in an Infliximab bridging ELISA when conjugated to HRP together with [HCA212](#) as the capture reagent.

Protocol: [PK bridging ELISA to measure free drug](#)

Protocol: [ADA bridging ELISA](#).

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**References**

1. Hernández-Breijo, B. *et al.* (2016) Standardization of the homogeneous mobility shift assay protocol for evaluation of anti-infliximab antibodies. Application of the method to Crohn's disease patients treated with infliximab. [Biochem Pharmacol. Sep 21. pii: S0006-2952\(16\)30302-1. \[Epub ahead of print\]](#)

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**Storage**

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.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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**Guarantee**

12 months from date of despatch

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**Acknowledgements**

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 [bio-rad.com/en-us/trademarks](http://bio-rad.com/en-us/trademarks) for details.

Remicade is a trademark of Janssen Biotech Inc. Inflectra is a 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 #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/HCA213G">https://www.bio-rad-antibodies.com/SDS/HCA213G</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 Useful Reagents

[LYNX RAPID HRP ANTIBODY CONJUGATION KIT \(LNK002P\)](#)  
[RECOMBINANT HUMAN TNF ALPHA \(PHP051\)](#)  
[HUMAN ANTI INFLIXIMAB \(HCA212\)](#)  
[HISPEC ASSAY DILUENT \(BUF049A\)](#)  
[MOUSE ANTI HUMAN IgG \(Fc\) CH2 DOMAIN:HRP \(MCA647P\)](#)  
[HUMAN ANTI INFLIXIMAB \(HCA214\)](#)  
[HUMAN ANTI INFLIXIMAB \(HCA215\)](#)  
[HUMAN ANTI INFLIXIMAB \(HCA216\)](#)

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)  
'M430314:240503'

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