

Datasheet: HCA215

BATCH NUMBER 1612

Description:	HUMAN ANTI INFLIXIMAB
Specificity:	INFLIXIMAB
Other names:	Remicade®
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD19370_hlgG1
Isotype:	IgG1
Quantity:	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.

	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	Human IgG1 antibody (lambda light chain) selected from the HuCAL® phage display library and expressed in a human cell line.
Preparation	Purified IgG prepared by affinity chromatography on Protein A
Buffer Solution	Phosphate buffered saline.
Preservative Stabilisers	0.01% Thiomersal
Approx. Protein Concentrations	Antibody concentration 0.5 mg/ml.
Immunogen	Infliximab.
Specificity	Human anti Infliximab, clone AbD19370_hlgG1 , is an anti-idiotypic antibody that

specifically recognizes free infliximab monoclonal antibody and infliximab when bound to its target, Tumor Necrosis Factor Alpha (TNF α). 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 AbD19370_hIgG1 is not paratope-specific and is non-inhibitory; it binds to an epitope outside the infliximab binding site. This epitope is shared with other chimeric antibodies that are highly homologous to infliximab including the chimeric antibody cetuximab, but not rituximab. The antibody can be used as a detection antibody in a pharmacokinetic (PK) assay in the bridging format to measure total drug (free, partially bound and fully bound). 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 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. It is directed against TNF α and acts by blocking the binding of this cytokine to its receptors. Infliximab also induces apoptosis of TNF α expressing T-lymphocytes.

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

Affinity	The monovalent intrinsic affinity of this antibody was measured as $K_D=1.4$ nM by real time, label-free molecular interaction analysis on immobilized infliximab.
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 total drug Protocol: ADA bridging ELISA
Storage	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.
Guarantee	12 months from date of despatch
Acknowledgements	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. Inflectra® is a registered trademark of Hospira, a Pfizer Company. RENFLEXIS™ is a trademark of Merck Sharp & Dohme Corp.
Health And Safety Information	Material Safety Datasheet documentation #10094 available at: https://www.bio-rad-antibodies.com/SDS/HCA215 10094

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Regulatory For research purposes only

Technical Advice Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the [HuCAL Antibodies Technical Manual](#)

Related Products

Recommended Useful Reagents

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

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

[HUMAN ANTI INFILIXIMAB \(HCA212\)](#)

[MOUSE ANTI HUMAN IgG \(Fc\) CH2 DOMAIN:HRP \(MCA647P\)](#)

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

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
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