

## Datasheet: HCA214G

<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>	AbD19376
<b>Isotype:</b>	HuCAL Fab monovalent
<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.

### Product Form

A monovalent human recombinant Fab (lambda light chain) selected from the HuCAL phage display library, expressed in *E. coli*. The antibody is tagged with a DYKDDDDK tag and a HIS-tag (HHHHHH) at the C-terminus of the antibody heavy chain.

### Preparation

Metal chelate affinity chromatography

### Source

*E.coli*

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

0.09% Sodium Azide (NaN<sub>3</sub>)

### Approx. Protein Concentrations

Antibody concentration 1.0 mg/ml

### Immunogen

Infliximab

**Specificity** **Human Anti-Infliximab Antibody, clone AbD19376** is an anti-idiotypic antibody that specifically recognizes the infliximab monoclonal antibody and does not inhibit the binding of infliximab 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.

Clone AbD19376 recognizes both the free infliximab monoclonal antibody and infliximab when bound to TNF $\alpha$  (the drug/target complex); it is not paratope-specific and it is non-inhibitory. This antibody can be used as a capture antibody in a pharmacokinetic (PK) bridging ELISA to detect total drug (free, partially bound and fully bound) with [HCA216P](#) as the detection antibody.

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 acts by blocking the binding of TNF $\alpha$  to its receptors. Infliximab also induces apoptosis of TNF $\alpha$  expressing T-lymphocytes.

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

<b>Affinity</b>	The monovalent intrinsic affinity of this antibody is $K_D=0.7$ nM as measured by real time, label-free molecular interaction analysis on immobilized infliximab.
<b>ELISA</b>	This product may be used in an indirect ELISA or as a capture antibody in an Infliximab bridging ELISA together HRP-conjugated <a href="#">HCA213</a> or <a href="#">HCA216</a> as the detection reagent. Protocol: <a href="#">PK bridging ELISA to measure total drug</a> .
<b>References</b>	1. Bar-Yoseph, H. <i>et al.</i> (2022) Differential Serum-intestinal Dynamics of Infliximab and Adalimumab in Inflammatory Bowel Disease Patients. <a href="#">J Crohns Colitis. 16 (6): 884-92.</a>
<b>Storage</b>	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	<p>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="#">bio-rad.com/en-us/trademarks</a> for details.</p> <p>Remicade is a trademark of Janssen Biotech Inc. Inflectra is a trademark of Hospira, a Pfizer Company. RENFLEXIS is a trademark of Merck Sharp &amp; Dohme Corp. His-tag is a trademark of EMD Biosciences.</p>
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/HCA214G">https://www.bio-rad-antibodies.com/SDS/HCA214G</a>

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<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> .

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## Related Products

### Recommended Secondary Antibodies

Rat Anti Synthetic Peptide DYKDDDDK TAG (MCA4764...) [HRP](#)

Rabbit Anti Synthetic Peptide DYKDDDDK TAG (AHP1074...) [HRP](#)

Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA5995...) [HRP](#)

### Recommended Useful Reagents

[HUMAN ANTI INFLIXIMAB \(HCA216\)](#)

[HUMAN ANTI INFLIXIMAB \(HCA215\)](#)

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

[GOAT ANTI HISTIDINE TAG:Biotin \(AHP1656B\)](#)

[MOUSE ANTI HISTIDINE TAG:ALK.PHOS. \(MCA1396A\)](#)

[MOUSE ANTI HISTIDINE TAG:Biotin \(MCA1396B\)](#)

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

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

[HUMAN ANTI INFLIXIMAB \(HCA213\)](#)

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