

## Datasheet: HCA234

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

### Product Form

A monovalent human recombinant Fab 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. This antibody is supplied as a liquid.

### Preparation

Metal chelate affinity chromatography

### 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 AbD20436**, is an affinity matured anti-idiotypic antibody in monovalent Fab format 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.

Human anti Infliximab, clone AbD20436 inhibits the binding of infliximab to TNF $\alpha$  and can be used as a capture antibody in a pharmacokinetic (PK) assay in the bridging format to measure free drug.

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. Infliximab 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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**Affinity** 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.

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**ELISA** This product may be used in an indirect ELISA system or as a capture reagent in PK assay development together with HRP-conjugated [HCA215](#) or [HCA233](#) as the detection reagent.  
Protocol: [PK bridging ELISA to measure free drug](#)

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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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His-tag is a registered trademark of EMD Biosciences.

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**Health And Safety Information** Material Safety Datasheet documentation #10094 available at:  
10094: <https://www.bio-rad-antibodies.com/uploads/MSDS/10094.pdf>

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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 Secondary Antibodies

Rabbit Anti Synthetic Peptide DYKDDDDK TAG (AHP1074...) [HRP](#)  
Goat Anti Synthetic Peptide HISTIDINE TAG (AHP1656...) [Biotin](#)  
Goat Anti Human IgG F(ab')<sub>2</sub> (0500-0099...) [HRP](#)  
Rat Anti Synthetic Peptide DYKDDDDK TAG (MCA4764...) [HRP](#)  
Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA5995...) [HRP](#)  
Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA1396...) [Alk. Phos.](#), [Biotin](#)

### Recommended Useful Reagents

[HISPEC ASSAY DILUENT \(BUF049A\)](#)  
[HUMAN ANTI INFLIXIMAB \(HCA213\)](#)  
[HUMAN ANTI INFLIXIMAB \(HCA215\)](#)  
[HUMAN ANTI INFLIXIMAB \(HCA233\)](#)  
[LYNX RAPID HRP ANTIBODY CONJUGATION KIT \(LNK002P\)](#)  
[RECOMBINANT HUMAN TNF ALPHA \(PHP051\)](#)

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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)  
'M391730:211015'

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