

Datasheet: TZA009

**BATCH NUMBER 162242**

<b>Description:</b>	HUMAN ANTI INFLIXIMAB (DRUG/TARGET COMPLEX)
<b>Specificity:</b>	INFLIXIMAB DRUG/TARGET COMPLEX
<b>Other names:</b>	Remicade
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD18391
<b>Isotype:</b>	Fab antibody
<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 (lambda light chain) in the Fab-F-Spy2-H format selected from the HuCAL® phage display library and expressed in a proprietary *E. coli* strain. The antibody is tagged with a DYKDDDDK tag, a SpyTag version 2 (VPTIVMVDAYKRYK) and a His6-tag (HHHHHH) at the C-terminus of the antibody heavy chain. This antibody is supplied as a liquid.

### Preparation

Metal chelate affinity chromatography

### Source

E.coli

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

0.0095% MIT

### Approx. Protein

Antibody concentration 0.5 mg/ml

## Concentrations

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**Immunogen**                      Infliximab/TNF $\alpha$  complex

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**Specificity**                    **Human Anti-Infliximab (Drug/Target Complex) Antibody, clone AbD18391** specifically recognizes the antibody drug infliximab when in complex with its target, TNF $\alpha$  (cytokine “tumour necrosis factor-alpha”). At defined experimental levels, the antibody does not recognize free infliximab nor unbound recombinant human TNF $\alpha$ . However, as levels greatly increase, detection is noted. It can be used to measure levels of infliximab in patient samples.

This TrailBlazer Antibody is available in two different formats, monovalent Fab unconjugated (TZA009) and bivalent Fab conjugated to HRP (TZA009P). The monovalent recombinant Fab antibody has a SpyTag incorporated, which is used to create the bivalent format by coupling two SpyTagged Fab antibodies to an HRP conjugated BiSpyCatcher2 ([TZC002P](#)). Either format can be used to develop a pharmacokinetic (PK) antigen capture assay to measure free infliximab captured via immobilized TNF $\alpha$ .

The antibody is tagged with a SpyTag2 at the C-terminus of the Fab antibody heavy chain, enabling the user to couple it to any of the SpyCatchers available in our catalog for conversion to alternative formats in less than one hour.

[View a summary of all SpyCatcher products](#)

Infliximab (Remicade) is a chimeric IgG1/kappa antibody. It has been approved for the treatment of psoriasis, Crohn’s Disease, ankylosing spondylitis, psoriatic arthritis, rheumatoid arthritis and ulcerative colitis. Infliximab acts by blocking the binding of TNF $\alpha$  to TNF receptors. Infliximab also causes programmed cell death of TNF $\alpha$ -expressing activated T lymphocytes.

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

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**Affinity**                         The monovalent intrinsic affinity of AbD18391 was measured as  $K_D = 16$  nM by real time, label free molecular interaction analysis on immobilized biotinylated infliximab complexed with human TNF $\alpha$ .

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**ELISA**                         Clone AbD18391ad can be used in a indirect ELISA to detect the infliximab/TNF $\alpha$  complex or as the detection antibody for infliximab captured on immobilized TNF $\alpha$  in a PK antigen capture ELISA.

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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. Should this product contain a precipitate we recommend microcentrifugation before use.

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<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	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="http://bio-rad.com/en-us/trademarks">bio-rad.com/en-us/trademarks</a> for details. His-tag is a registered trademark of EMD Biosciences. Remicade is a trademark of Janssen Biotech, Inc.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #20479 available at: <a href="https://www.bio-rad-antibodies.com/SDS/TZA009">https://www.bio-rad-antibodies.com/SDS/TZA009</a> 20479
<b>Licensed Use</b>	For in vitro research purposes and for commercial applications for the provision of in vitro 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 for coupling a Fab antibody with a SpyTag to a SpyCatcher can be found at <a href="#">SpyTag and SpyCatcher Products</a> , 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

- [SpyTag3 PEPTIDE \(BLP086\)](#)
- [BiSpyCatcher2:Biotin \(TZC002B\)](#)
- [BiSpyCatcher2:HRP \(TZC002P\)](#)
- [HUMAN ANTI INFLIXIMAB \(HCA212\)](#)
- [HUMAN ANTI INFLIXIMAB \(HCA213\)](#)
- [HUMAN ANTI INFLIXIMAB \(HCA214\)](#)
- [HUMAN ANTI INFLIXIMAB \(HCA215\)](#)
- [HUMAN ANTI INFLIXIMAB \(HCA216\)](#)
- [HUMAN ANTI INFLIXIMAB \(HCA233\)](#)
- [HUMAN ANTI INFLIXIMAB \(HCA234\)](#)
- [HUMAN ANTI INFLIXIMAB \(DRUG/TARGET COMPLEX\):HRP \(TZA009P\)](#)

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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](http://bio-rad-antibodies.com/datasheets)  
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Printed on 19 Jan 2024