

Datasheet: TZA009

Description:	HUMAN ANTI INFLIXIMAB (DRUG/TARGET COMPLEX)
Specificity:	INFLIXIMAB DRUG/TARGET COMPLEX
Other names:	Remicade
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD18391
Isotype:	Fab antibody
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

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

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.0095% MIT

Approx. Protein Concentrations

Antibody concentration 0.5 mg/ml

Immunogen

Infliximab/TNF α complex

Specificity

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

Anti-Infliximab monovalent Fab antibody TZA009 has a SpyTag incorporated for conversion by the user into alternative antibody formats using any of the SpyCatchers available in our catalog.

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

Anti-Infliximab monovalent Fab antibody TZA009 can be used to develop a pharmacokinetic (PK) antigen capture assay to measure free infliximab captured via immobilized TNF α .

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 α to TNF receptors. Infliximab also causes programmed cell death of TNF α -expressing activated T lymphocytes.

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

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 α .

ELISA

Clone AbD18391 can be used as detection antibody for infliximab captured on immobilized TNF α in a PK bridging ELISA.

Protocol: [PK bridging ELISA](#)

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.

Guarantee

12 months from date of despatch

Acknowledgements

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His-tag is a registered trademark of EMD Biosciences.

Remicade is a trademark of Janssen Biotech, Inc.

Health And Safety Information	Material Safety Datasheet documentation #20479 available at: 20479: https://www.bio-rad-antibodies.com/uploads/MSDS/20479.pdf
Licensed Use	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.
Regulatory	For research purposes only
Technical Advice	Recommended protocols for coupling a Fab antibody with a SpyTag to a SpyCatcher can be found at SpyTag and SpyCatcher Products , and further information about HuCAL recombinant antibody technology can be found in the HuCAL Antibodies Technical Manual

Related Products

Recommended Useful Reagents

[SpyTag3 PEPTIDE \(BLP086\)](#)

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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

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