

Datasheet: HCA206

BATCH NUMBER 0912

Description:	HUMAN ANTI ADALIMUMAB (DRUG/TARGET COMPLEX)
Specificity:	ADALIMUMAB (DRUG/TARGET COMPLEX)
Other names:	HUMIRA®
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD18754
Isotype:	HuCAL Fab monovalent
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 (kappa 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. 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

Adalimumab

Specificity **Human anti Adalimumab, clone AbD18754**, is an antibody that specifically recognizes the adalimumab monoclonal antibody while complexed with TNF α . As clone AbD18754 is a complex-specific antibody that recognizes adalimumab bound to its target, TNF α , it does not recognize either free adalimumab or unbound TNF α .

Clone AbD18754 can be used in assays to measure adalimumab that has been captured via immobilized TNF α . It can also be used to measure adalimumab, TNF α and biosimilar products using bioanalytical assays.

Adalimumab (branded as Humira[®]) is a fully human monoclonal antibody (IgG1/kappa) approved for the treatment of ankylosing spondylitis, Crohn's disease, psoriasis and several forms of arthritis. The antibody is specific for TNF α , and acts by blocking the activation of TNF receptors by TNF α . This inactivation down-regulates the inflammatory reactions associated with autoimmune diseases.

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

Affinity The monovalent intrinsic affinity of this antibody was measured as $K_D=67$ nM by real time, label-free molecular interaction analysis on immobilized adalimumab/TNF α complex.

ELISA This product may be used in an indirect ELISA on Adalimumab/TNF α complexes or as detection antibody, when conjugated to HRP, for Adalimumab bound to TNF α .
Protocol: [PK antigen capture ELISA to measure bound drug exclusively](#)

References 1. Harth, S. *et al.* (2019) Generation by phage display and characterization of drug-target complex-specific antibodies for pharmacokinetic analysis of biotherapeutics. [MAbs. 11 \(1\): 178-190.](#)

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.
Humira[®] is a registered trademark of Abbott Laboratories.
His-tag is a registered trademark of EMD Biosciences.

Health And Safety Information Material Safety Datasheet documentation #10094 available at:
<https://www.bio-rad-antibodies.com/SDS/HCA206>
10094

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form or any other commercial application needs a written agreement with Bio-Rad.

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 Secondary Antibodies

Goat Anti Synthetic Peptide HISTIDINE TAG (AHP1656...) [Biotin](#)
Rat Anti Synthetic Peptide DYKDDDDK TAG (MCA4764...) [HRP](#)
Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA5995...) [HRP](#)
Rabbit Anti Synthetic Peptide DYKDDDDK TAG (AHP1074...) [HRP](#)
Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA1396...) [Alk. Phos.](#), [Biotin](#)

Recommended Useful Reagents

[HISPEC ASSAY DILUENT \(BUF049A\)](#)
[LYNX RAPID HRP ANTIBODY CONJUGATION KIT \(LNK002P\)](#)
[RECOMBINANT HUMAN TNF ALPHA \(PHP051\)](#)
[GOAT ANTI HUMAN IgG F\(ab'\)₂:HRP \(STAR126P\)](#)

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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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