Datasheet: HCA202

BATCH NUMBER 149128

Description:	HUMAN ANTI ADALIMUMAB
Specificity:	ADALIMUMAB
Other names:	HUMIRA
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD18654
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 (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. 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 Antibody, clone AbD18654**, is a high affinity anti-idiotypic antibody that specifically recognizes the monoclonal antibody drug adalimumab and inhibits binding to its target, TNFα. The antibody can be used to measure the levels of adalimumab and biosimilar products in bioanalytical assays. Clone AbD18654 is recommended as a capture antibody in a pharmacokinetic (PK) bridging assay when used in combination with HRP-conjugated detection antibody (HCA204P). The assay will measure free drug, as both antibodies are inhibitory. 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 TNFα, and acts by blocking the activation of TNF receptors by TNFα. 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=0.15 nM by real time, label-free molecular interaction analysis on immobilized adalimumab.
ELISA	This product may be used in an indirect ELISA or in an ELISA bridging assay as a capture antibody together with HCA204P as the detection reagent. Protocol: PK bridging ELISA to measure free drug
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/HCA202 10094
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 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

MOUSE ANTI HUMAN IgG (Fc) CH2 DOMAIN:HRP (MCA647P)
HUMAN ANTI ADALIMUMAB:HRP (HCA204P)
HUMAN ANTI ADALIMUMAB (HCA204)
HISPEC ASSAY DILUENT (BUF049A)
GOAT ANTI HUMAN IgG F(ab')2:HRP (STAR126P)
RECOMBINANT HUMAN TNF ALPHA (PHP051)
LYNX RAPID HRP ANTIBODY CONJUGATION KIT (LNK002P)

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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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