

Datasheet: HCA231

BATCH NUMBER 167720

Description:	HUMAN ANTI ADALIMUMAB (DRUG/TARGET COMPLEX)
Specificity:	ADALIMUMAB (DRUG/TARGET COMPLEX)
Other names:	HUMIRA®
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD20350
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*. This antibody is tagged with a DYKDDDDK tag and a HIS-tag (HHHHHH) at the C-terminus of the antibody heavy chain. This product is supplied as a liquid.

Preparation

Metal chelate affinity chromatography.

Source

E.coli

Buffer Solution

Phosphate buffered saline.

Preservative Stabilisers

0.09% Sodium Azide (NaN₃)

Approx. Protein Concentrations

Antibody concentration 0.5 mg/ml.

Immunogen	Adalimumab/TNF α complex
Specificity	<p>Human anti Adalimumab (drug/target complex), clone AbD20350, is an affinity matured, Type 3 anti-idiotypic antibody that specifically recognizes adalimumab complexed with TNFα. It does not recognize the free drug or unbound TNFα. Clone AbD20350 can be used in assays to measure adalimumab that has been captured via immobilized TNFα, thereby avoiding the bridging assay format. It can also be used to measure the level of the drug/target complex and biosimilar products using bioanalytical assays.</p> <p>Adalimumab (brand name Humira[®]) is a human monoclonal antibody (IgG1/kappa) approved for the treatment of rheumatoid, psoriatic and juvenile idiopathic arthritis, ankylosing spondylitis, Crohn's disease and ulcerative colitis. This therapeutic antibody is directed against the pro-inflammatory cytokine tumor necrosis factor alpha (TNFα), blocking its interaction with the p55 (TNFR1, CD120a) and p75 (TNFR2, CD120b) cell surface TNF receptors, resulting in a down-regulation of the abnormal inflammatory response that is characteristic of autoimmune disease.</p> <p>View a summary of all anti-adalimumab antibodies.</p>
Affinity	The monovalent intrinsic affinity of this antibody is $K_D=3.2$ nM as measured by real time, label-free molecular interaction analysis on immobilized adalimumab/TNF α complex.
ELISA	<p>This product may be used in an indirect ELISA to detect the adalimumab/TNFα complex or to detect adalimumab bound to immobilized TNFα.</p> <p>Protocol: PK antigen capture ELISA to measure bound drug exclusively.</p>
References	1. Harth, S. <i>et al.</i> (2019) Generation by phage display and characterization of drug-target complex-specific antibodies for pharmacokinetic analysis of biotherapeutics. MAbs. 11 (1): 178-190.
Storage	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
Guarantee	12 months from date of despatch.
Acknowledgements	<p>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 bio-rad.com/en-us/trademarks for details.</p> <p>Humira is a trademark of Abbott Laboratories.</p> <p>His-tag is a trademark of EMD Biosciences.</p>
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/HCA231

Licensed Use	For <i>in vitro</i> research purposes and for commercial applications for the provision of <i>in vitro</i> 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

- [LYNX RAPID HRP ANTIBODY CONJUGATION KIT \(LNK002P\)](#)
[HUMAN ANTI ADALIMUMAB \(DRUG/TARGET COMPLEX\) \(HCA232\)](#)
[RECOMBINANT HUMAN TNF ALPHA \(PHP051\)](#)
[HISPEC ASSAY DILUENT \(BUF049A\)](#)

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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
'M420940:230706'

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