

## Datasheet: HCA324

<b>Description:</b>	HUMAN ANTI CERTOLIZUMAB PEGOL
<b>Specificity:</b>	CERTOLIZUMAB PEGOL
<b>Other names:</b>	Cimzia
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD34136ia
<b>Isotype:</b>	IgG1
<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.

<b>Product Form</b>	Human IgG1 antibody (kappa light chain) selected from the HuCAL phage display library and expressed in a human cell line. This antibody is supplied as a liquid.
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A
<b>Source</b>	HKB-11
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	Antibody concentration 0.5 mg/ml
<b>Immunogen</b>	Certolizumab pegol

**Specificity** **Human Anti-Certolizumab pegol Antibody, clone AbD34136ia**, is a paratope specific, inhibitory anti-idiotypic antibody that specifically recognizes the free humanized Fab fragment antibody certolizumab pegol. The antibody does not recognize human Tumor Necrosis Factor alpha (TNF $\alpha$ ) or certolizumab pegol in complex with human TNF $\alpha$ .

Clone AbD34136ia is a fully human recombinant monoclonal antibody with IgG1 isotype and is suitable as a surrogate positive control or reference standard in an anti-drug antibody (ADA) assay. This antibody has a monovalent intrinsic affinity of 3 nM, and is one of three antibodies with different affinities offered for ADA assays. Antibody [HCA325](#) has affinity 1 nM and [HCA326](#) has affinity 2 nM.

Certolizumab pegol (Cimzia) is a humanized Fab fragment antibody (50 kDa), covalently bound to two polyethylene glycol (PEG) chains (PEG2MAL, 40 kDa) via a thioether linkage; total molecular weight 90.8 kDa. PEG helps to delay the metabolism and elimination of the drug. The removal of the Fc region increases the half-life of the drug and prevents complement fixation and antibody-mediated cytotoxicity. The drug is approved for the treatment of Crohn's disease, rheumatoid arthritis, psoriatic arthritis and ankylosing spondylitis. It binds to free and membrane-bound human TNF $\alpha$  and neutralizes its activity by inhibiting the binding of TNF $\alpha$  to human p55 and p75 TNF receptors.

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

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**Affinity** The intrinsic affinity of Human anti Certolizumab Pegol antibody, clone AbD34136ia is  $K_D = 3$  nM as measured by real time, label free molecular interaction analysis on immobilized Certolizumab Pegol.

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**ELISA** Human anti Certolizumab Pegol antibody, clone AbD34136ia can be used in an indirect ELISA. It can also be used as a surrogate positive control or calibrator in an anti-drug antibody assay.

Protocol: [ADA bridging 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.

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**Guarantee** 12 months from date of despatch

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**Acknowledgements** 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](http://bio-rad.com/en-us/trademarks) for details. Cimzia is a trademark of UCB Pharma S.A.

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/HCA324>

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**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.

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**Regulatory** For research purposes only

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**Technical Advice** Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the [HuCAL Antibodies Technical Manual](#).

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## Related Products

### Recommended Useful Reagents

[HISPEC ASSAY DILUENT \(BUF049A\)](#)

[LYNX RAPID HRP ANTIBODY CONJUGATION KIT \(LNK002P\)](#)

[HUMAN ANTI CERTOLIZUMAB PEGOL \(HCA325\)](#)

[HUMAN ANTI CERTOLIZUMAB PEGOL \(HCA326\)](#)

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