

Datasheet: HCA324

**BATCH NUMBER 153331**

<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>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.01% Thiomersal
<b>Approx. Protein Concentrations</b>	Antibody concentration 0.5 mg/ml
<b>Immunogen</b>	Certolizumab pegol
<b>Specificity</b>	<b>Human Anti-Certolizumab pegol Antibody, clone AbD34136ia</b> , 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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<b>Affinity</b>	The monovalent intrinsic affinity of AbD34136ia was measured as $K_D = 3$ nM by real time, label free molecular interaction analysis on immobilized certolizumab pegol.
<b>ELISA</b>	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: <a href="#">ADA bridging ELISA</a>
<b>Storage</b>	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.
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	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. Cimzia is a trademark of UCB Pharma S.A.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10094 available at: <a href="https://www.bio-rad-antibodies.com/SDS/HCA324">https://www.bio-rad-antibodies.com/SDS/HCA324</a> 10094
<b>Licensed Use</b>	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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