

Datasheet: HCA324

BATCH NUMBER 172963

Description:	HUMAN ANTI CERTOLIZUMAB PEGOL
Specificity:	CERTOLIZUMAB PEGOL
Other names:	Cimzia
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD34136ia
Isotype:	IgG1
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	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.
Preparation	Purified IgG prepared by affinity chromatography on Protein A
Source	HKB-11
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	Antibody concentration 0.5 mg/ml
Immunogen	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 α) or certolizumab pegol in complex with human TNF α .

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 α and neutralizes its activity by inhibiting the binding of TNF α to human p55 and p75 TNF receptors.

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

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.

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](#).

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.

Guarantee

12 months from date of despatch

Acknowledgements

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Health And Safety Information

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

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 Useful Reagents

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

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

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

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

Product inquiries: www.bio-rad-antibodies.com/technical-support

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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