

Datasheet: HCA274

BATCH NUMBER 1611

Description:	HUMAN ANTI GOLIMUMAB (DRUG/TARGET COMPLEX)
Specificity:	GOLIMUMAB DRUG/TARGET COMPLEX
Other names:	SIMPONI®
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD25705
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

Golimumab

Specificity **Human anti golimumab (drug/target complex), clone AbD25705** is an affinity matured recombinant antibody in monovalent Fab format that specifically recognizes golimumab when in complex with its target, tumor necrosis factor alpha (TNF α). Clone AbD25705 does not recognize unbound golimumab nor free TNF α . The antibody can be used in a pharmacokinetic (PK) antigen capture format assay to measure golimumab that has been captured via immobilized human TNF α . It is ideal for bioanalytical assays to measure the level of drug or biosimilar in complex with the TNF α target.

Golimumab, marketed under the brand name Simponi®, is a recombinant human IgG1/kappa monoclonal antibody approved for the treatment of rheumatoid arthritis, psoriatic arthritis and ankylosing spondylitis. This therapeutic antibody, directed against TNF α , acts by blocking the binding of TNF α to its receptors, resulting in a down-regulation of the inflammatory response associated with autoimmune diseases.

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

Affinity The monovalent intrinsic affinity of AbD25705 was measured as $K_D = 6$ nM by real time, label free molecular interaction analysis on immobilized golimumab in complex with human TNF α .

ELISA This product may be used in an indirect ELISA to detect the golimumab/TNF α complex or to detect golimumab bound to immobilized TNF α .
Protocol: [PK antigen capture ELISA to measure bound drug exclusively](#)

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.
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/HCA274>
10094

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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 \(BUF049A\)](#)

[MOUSE ANTI PENTA HISTIDINE TAG:HRP \(MCA5995P\)](#)

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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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