

Datasheet: HCA286

BATCH NUMBER 1703

Description:	HUMAN ANTI GOLIMUMAB
Specificity:	GOLIMUMAB
Other names:	SIMPONI
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD25429
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*. 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 Antibody, clone AbD25429** is a paratope specific, high affinity, anti-idiotypic antibody that specifically recognizes the monoclonal antibody drug golimumab and inhibits it binding to its target, TNF α . This antibody can be used to measure the levels of free golimumab and biosimilar products in bioanalytical assays.

Clone AbD25429 is an affinity-matured variant of clone AbD20710 ([HCA240](#)), with about 2-fold affinity improvement.

A pair of anti golimumab antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug. This antibody, in monovalent Fab format, is recommended as the capture antibody, paired with the antibody in full immunoglobulin format, clone AbD25418_hlgG1 ([HCA287P](#)), as the detection antibody.

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 AbD25429 was measured as $K_D = 1.0$ nM by real time, label free molecular interaction analysis on immobilized golimumab.

ELISA Clone AbD25429 can be used in a direct or indirect ELISA system or as capture antibody for golimumab in a bridging ELISA together with [HCA287P](#) (AbD25418_hlgG1) as the detection reagent.

Protocol: [PK bridging ELISA to measure free drug](#)

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. Simponi is a registered trademark of Janssen Biotech, Inc. in the USA and Merck & Co, Inc. in Europe.
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/HCA286>
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

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

[MOUSE ANTI HUMAN IgG \(Fc\) CH2 DOMAIN:HRP \(MCA647P\)](#)

[HUMAN ANTI GOLIMUMAB \(HCA287\)](#)

[LYNX RAPID HRP ANTIBODY CONJUGATION KIT \(LNK001P\)](#)

[HUMAN ANTI GOLIMUMAB:HRP \(HCA287P\)](#)

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