

Datasheet: HCA289

Description:	HUMAN ANTI GOLIMUMAB
Specificity:	GOLIMUMAB
Other names:	SIMPONI
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD25455
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

Source

E. coli

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide (NaN₃)

Approx. Protein Concentrations

Antibody concentration 0.5 mg/ml

ImmunogenGolimumab

Specificity

Human Anti-Golimumab Antibody, clone AbD25455 is an anti-idiotypic antibody that specifically recognizes the monoclonal antibody drug golimumab. This antibody binds to both free golimumab and to golimumab bound to its target tumor necrosis factor alpha (TNF α). Clone AbD25455 does not inhibit the binding of golimumab to its target TNF α and can be used to measure total golimumab and biosimilar products in bioanalytical assays.

Clone AbD25455 is an affinity-matured variant of clone AbD20897 ([HCA242](#)), with about 7-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 an antibody in full immunoglobulin format, clone AbD25451_hIgG1 ([HCA290](#)), 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 intrinsic affinity of the monovalent form of Human anti Golimumab antibody, clone AbD25455 is $K_D = 0.9$ nM as measured by real time, label free molecular interaction analysis on immobilized Golimumab.

ELISA

Human anti Golimumab antibody, clone AbD25455 can be used in a direct or indirect ELISA system or as capture antibody for golimumab in a bridging ELISA together with [HCA290](#) (AbD25455_hIgG1) as the detection reagent.
Protocol: [PK bridging ELISA to measure total 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 \(1\): 178-90.](#)

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

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 for details.

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

His-tag is a trademark of EMD Biosciences.

Health And Safety Information

Material Safety Datasheet documentation #10040 available at:
<https://www.bio-rad-antibodies.com/SDS/HCA289>
10040

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

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

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

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

[HUMAN ANTI GOLIMUMAB \(HCA290\)](#)

[HUMAN ANTI GOLIMUMAB:HRP \(HCA290P\)](#)

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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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