

Datasheet: HCA286

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

Source

E. coli

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide (NaN₃)

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 intrinsic affinity of the monovalent form of Human anti Golimumab antibody, clone AbD25429 is $K_D = 1.0$ nM by real time, label free molecular interaction analysis on immobilized Golimumab.

ELISA

Human anti Golimumab antibody, 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 \(1\): 178-90.](#)

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/HCA286>
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

[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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