

Datasheet: HCA287P

BATCH NUMBER 154811

Description:	HUMAN ANTI GOLIMUMAB:HRP
Specificity:	GOLIMUMAB
Other names:	SIMPONI
Format:	HRP
Product Type:	Monoclonal Antibody
Clone:	AbD25418_hlgG1
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. Conjugated to horseradish peroxidase (HRP) – liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.01% Thiomersal
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	Golimumab
Specificity	Human Anti-Golimumab Antibody, clone AbD25418_hlgG1 is a paratope specific,

inhibitory anti-idiotypic antibody that specifically recognizes the free human monoclonal antibody golimumab and inhibits binding to its target TNF α .

Clone AbD25418_hIgG1 does not recognize free human TNF α or golimumab in complex with human TNF α . This antibody can be used to measure free golimumab and biosimilar products in bioanalytical assays.

Clone AbD25418_hIgG1 is an affinity-matured variant of AbD20692 ([HCA241](#)), with about a 21-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 full immunoglobulin format, is recommended as the detection antibody paired with clone AbD25429 ([HCA286](#)) in monovalent Fab format as the capture 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 AbD25418 was measured as $K_D = 0.13$ nM by real time, label free molecular interaction analysis on immobilized golimumab
ELISA	This product may be used in a direct ELISA or as detection antibody for golimumab in a bridging ELISA together with HCA286 (AbD25429, Fab-FH) as the capture reagent. Protocol: PK bridging ELISA to measure free drug
Storage	Store at -70°C. Storage in frost-free freezers is not recommended. This product should be stored undiluted.
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
Health And Safety Information	Material Safety Datasheet documentation #10094 available at: https://www.bio-rad-antibodies.com/SDS/HCA287P10094
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

[HUMAN ANTI GOLIMUMAB \(HCA286\)](#)

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

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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
'M371727:200612'

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