

Datasheet: HCA372

BATCH NUMBER 160407

Description:	HUMAN ANTI SECUKINUMAB
Specificity:	SECUKINUMAB
Other names:	Cosentyx
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD37091ia
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 (lambda light chain) selected from the HuCAL® phage display library and expressed in a human cell line. This antibody is supplied as a liquid.
Preparation	Purified IgG prepared by affinity chromatography on Protein A
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.01% Thiomersal
Approx. Protein Concentrations	Antibody concentration 0.5 mg/ml
Immunogen	Secukinumab
Specificity	Human Anti-Secukinumab Antibody, clone AbD37091ia is a paratope specific,

inhibitory anti-idiotypic antibody that specifically recognizes the human monoclonal antibody secukinumab. It does not recognize free human interleukin 17A (IL-17A) nor secukinumab in complex with human IL-17A. The antibody can be used to measure secukinumab or its biosimilars in patient samples.

A pair of anti-secukinumab antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug. Either this antibody, or clone AbD37054ia ([HCA371](#)), is recommended as the detection antibody, paired with an anti-secukinumab antibody in monovalent Fab format, clone AbD37052 ([HCA370](#)), as the capture antibody.

Clone AbD37091ia is a fully human recombinant monoclonal antibody with IgG1 isotype and can be used as a surrogate positive control or reference standard in an anti-drug antibody (ADA) assay. This antibody has a monovalent intrinsic affinity of 5 nM, and is one of three antibodies with different affinities offered for ADA assays.

Secukinumab (Cosentyx) is a human IgG1/kappa antibody generated using transgenic mouse technology. It has been approved for the treatment of plaque psoriasis, ankylosing spondylitis, psoriatic arthritis and non-radiographic axial spondyloarthritis. Secukinumab inhibits IL-17A produced mainly by inflammatory T helper 17 cells (Lubrano and Perrotta 2016).

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

Affinity The monovalent intrinsic affinity of AbD37091ia was measured as $K_D = 5$ nM by real time, label free molecular interaction analysis on immobilized secukinumab.

ELISA Clone AbD37091ia is suitable for use as a detection antibody for secukinumab in a bridging ELISA together with HCA370 as the capture reagent. It can also be used as a surrogate positive control or calibrator in an anti-drug antibody assay.

Protocol: [PK bridging ELISA](#)

Protocol: [ADA bridging ELISA](#)

Further Reading 1. Lubrano, E. & Perrotta, F.M. (2016) Secukinumab for ankylosing spondylitis and psoriatic arthritis. [Ther Clin Risk Manag. 12: 1587-1592.](#)

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.
Cosentyx is a trademark of Novartis.

Health And Safety Information	Material Safety Datasheet documentation #10094 available at: https://www.bio-rad-antibodies.com/SDS/HCA372 10094
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 SECUKINUMAB \(HCA370\)](#)
[HUMAN ANTI SECUKINUMAB \(HCA371\)](#)
[HUMAN ANTI SECUKINUMAB \(HCA373\)](#)
[HUMAN ANTI SECUKINUMAB \(DRUG/TARGET COMPLEX\) \(HCA375\)](#)
[LYNX RAPID HRP ANTIBODY CONJUGATION KIT \(LNK002P\)](#)
[HISPEC ASSAY DILUENT \(BUF049A\)](#)

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'M395073:220309'

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