

## Datasheet: HCA372

<b>Description:</b>	HUMAN ANTI SECUKINUMAB
<b>Specificity:</b>	SECUKINUMAB
<b>Other names:</b>	Cosentyx
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD37091ia
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.

<b>Product Form</b>	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.
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A
<b>Source</b>	HKB-11
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	Antibody concentration 0.5 mg/ml
<b>Immunogen</b>	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](#)

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**Affinity**

The intrinsic affinity of the monovalent form of Human anti Secukinumab antibody, clone AbD37091ia is  $K_D = 5$  nM as measured by real time, label free molecular interaction analysis on immobilized Secukinumab.

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**ELISA**

Human anti Secukinumab antibody, 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](#).

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**Further Reading**

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

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**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.

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**Guarantee**

12 months from date of despatch

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**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](http://bio-rad.com/en-us/trademarks) for details.

Cosentyx is a trademark of Novartis.

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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/HCA372">https://www.bio-rad-antibodies.com/SDS/HCA372</a> 10040
<b>Licensed Use</b>	For <i>in vitro</i> research purposes and for commercial applications for the provision of <i>in vitro</i> 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.
<b>Regulatory</b>	For research purposes only
<b>Technical Advice</b>	Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the <a href="#">HuCAL Antibodies Technical Manual</a> .

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## 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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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)

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