

Datasheet: HCA329

**BATCH NUMBER 172974**

<b>Description:</b>	HUMAN ANTI IPILIMUMAB
<b>Specificity:</b>	IPILIMUMAB
<b>Other names:</b>	Yervoy
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD34429ia
<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 (kappa 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>	Ipilimumab

**Specificity**

**Human Anti-Ipilimumab Antibody, clone AbD34429ia** is a paratope specific, inhibitory anti-idiotypic antibody that specifically recognizes the monoclonal antibody ipilimumab. It does not recognize free human CTLA-4 (cytotoxic T-lymphocyte antigen-4) or ipilimumab in complex with CTLA-4.

A pair of anti-ipilimumab antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug. This antibody is recommended as the detection antibody, paired with an anti-ipilimumab antibody in monovalent Fab format, clone AbD34433 ([HCA330](#)), as the capture antibody.

Clone AbD34429ia is a fully human recombinant monoclonal antibody with IgG1 isotype and is suitable as a surrogate positive control or reference standard in an anti-drug antibody (ADA) assay. This antibody has a monovalent intrinsic affinity of 1 nM, and is one of three antibodies with different affinities offered for ADA assays. Antibody [HCA327](#) has affinity 16 nM and [HCA328](#) has affinity 0.3 nM.

Ipilimumab (Yervoy) is a human IgG1/kappa antibody developed from a transgenic mouse. It has been approved by the FDA for the treatment of metastatic melanoma, renal cell carcinoma, and in combination with nivolumab for the treatment of previously treated microsatellite instability-high/deficient mismatch repair (MSI-H/dMMR) metastatic colorectal cancer. Ipilimumab activates the immune system by targeting CTLA-4, a protein receptor that downregulates the immune system. The action of cytotoxic T lymphocytes (CTLs) to recognize and destroy cancer cells is subject to an inhibitory mechanism that interrupts this destruction. Ipilimumab turns off this inhibitory mechanism and allows CTLs to function.

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

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**Affinity**

The intrinsic affinity of the monovalent form of Human anti Ipilimumab antibody, clone AbD34429ia is  $K_D = 1$  nM by real time, label free molecular interaction analysis on immobilized Ipilimumab.

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**ELISA**

Human anti Ipilimumab antibody, clone AbD34429ia can be used in an indirect ELISA or as a detection antibody for Ipilimumab in a bridging ELISA together with [HCA330](#) as the capture reagent. It can also be used as a surrogate positive control or calibrator in an anti-drug antibody assay.

Protocol: [ADA bridging ELISA](#).

Protocol: [PK bridging ELISA](#).

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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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<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	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 <a href="https://www.bio-rad.com/en-us/trademarks">bio-rad.com/en-us/trademarks</a> for details. Yervoy is a trademark of Bristol-Myers Squibb Company.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/HCA329">https://www.bio-rad-antibodies.com/SDS/HCA329</a>
<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> .

## Related Products

### Recommended Useful Reagents

[LYNX RAPID HRP ANTIBODY CONJUGATION KIT \(LNK002P\)](#)  
[HISPEC ASSAY DILUENT \(BUF049A\)](#)  
[HUMAN ANTI IPILIMUMAB \(HCA327\)](#)  
[HUMAN ANTI IPILIMUMAB \(HCA328\)](#)  
[HUMAN ANTI IPILIMUMAB \(HCA330\)](#)  
[HUMAN ANTI IPILIMUMAB \(DRUG/TARGET COMPLEX\) \(HCA331\)](#)

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

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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