

## Datasheet: HCA329P

**BATCH NUMBER 153337**

|                      |                           |
|----------------------|---------------------------|
| <b>Description:</b>  | HUMAN ANTI IPILIMUMAB:HRP |
| <b>Specificity:</b>  | IPILIMUMAB                |
| <b>Other names:</b>  | Yervoy                    |
| <b>Format:</b>       | HRP                       |
| <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 conjugated to horseradish peroxidase (HRP) and supplied as a liquid. |
| <b>Preparation</b>                    | Purified IgG prepared by affinity chromatography on Protein A  |
| <b>Buffer Solution</b>                | Phosphate buffered saline  |
| <b>Preservative Stabilisers</b>       | 0.01% Thiomersal   |
| <b>Approx. Protein Concentrations</b> | Antibody concentration 0.1 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.

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 monovalent intrinsic affinity of AbD34429ia was measured as  $K_D = 1$  nM by real time, label free molecular interaction analysis on immobilized ipilimumab.

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**ELISA**

Clone AbD34429ia can be used in a direct ELISA or as the detection antibody for ipilimumab in a bridging ELISA together with [HCA330](#) as the capture reagent.

Protocol:

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**Storage**

Store at -70°C.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee**

12 months from date of despatch

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**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.

Yervoy is a trademark of Bristol-Myers Squibb Company.

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**Health And Safety Information**

Material Safety Datasheet documentation #10094 available at: <https://www.bio-rad-antibodies.com/SDS/HCA329P>  
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.

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**Regulatory** For research purposes only

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**Technical Advice** Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the [HuCAL Antibodies Technical Manual](#)

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## Related Products

### Recommended Useful Reagents

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

[HUMAN ANTI IPILIMUMAB \(HCA327\)](#)

[HUMAN ANTI IPILIMUMAB \(HCA328\)](#)

[HUMAN ANTI IPILIMUMAB \(HCA330\)](#)

[HUMAN ANTI IPILIMUMAB \(DRUG/TARGET COMPLEX\) \(HCA331\)](#)

[HUMAN ANTI IPILIMUMAB \(HCA329\)](#)

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'M371783:200612'

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