

Datasheet: HCA328

Description:	HUMAN ANTI IPILIMUMAB
Specificity:	IPILIMUMAB
Other names:	Yervoy
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD34428ia
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. This antibody is supplied as a liquid.
Preparation	Purified IgG prepared by affinity chromatography on Protein A
Source	HKB-11
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	Antibody concentration 0.5 mg/ml
Immunogen	Ipilimumab

Specificity

Human Anti-Ipilimumab Antibody, clone AbD34428ia 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 AbD34428ia 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 0.3 nM, and is one of three antibodies with different affinities offered for ADA assays. Antibody [HCA327](#) has affinity 16 nM and [HCA329](#) has affinity 1 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](#)

Affinity

The intrinsic affinity of the monovalent form of Human anti Ipilimumab antibody, clone AbD34428ia is $K_D = 0.3$ nM as measured by real time, label free molecular interaction analysis on immobilized Ipilimumab.

ELISA

Human anti Ipilimumab antibody, clone AbD34428ia can be used in an indirect ELISA. It can also be used as a surrogate positive control or calibrator in an anti-drug antibody assay.

Protocol: [ADA bridging ELISA](#).

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.

Yervoy is a trademark of Bristol-Myers Squibb Company.

Health And Safety

Material Safety Datasheet documentation #10040 available at:

Information <https://www.bio-rad-antibodies.com/SDS/HCA328>
10040

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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

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

[LYNX RAPID HRP ANTIBODY CONJUGATION KIT \(LNK002P\)](#)

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

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

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

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

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

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