

Datasheet: TZA001

Description:	HUMAN ANTI IPILIMUMAB (DRUG/TARGET COMPLEX)
Specificity:	IPILIMUMAB DRUG/TARGET COMPLEX
Other names:	Yervoy
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD34294
Isotype:	Fab antibody
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

A monovalent human recombinant Fab (lambda light chain) selected from the HuCAL® phage display library. Expressed in a proprietary *E. coli* strain. The antibody is tagged with a DYKDDDDK tag, a SpyTag version 2 (VPTIVMVDAYKRYK) and a His6-tag (HHHHHH) at the C-terminus of the antibody heavy chain. This antibody is supplied as a liquid.

Preparation

Metal chelate affinity chromatography

Source

E.coli

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.0095% MIT

Approx. Protein Concentrations

Antibody concentration 0.5 mg/ml

Specificity**Human Anti-Ipilimumab (Drug/Target Complex) Antibody, clone AbD34294**

specifically recognizes the antibody drug ipilimumab when in complex with its target, CTLA-4 (cytotoxic T-lymphocyte antigen-4). The antibody does not recognize free ipilimumab nor unbound recombinant human CTLA-4. It can be used to measure levels of ipilimumab in patient samples.

This TrailBlazer Antibody is available in the SpyTag monovalent recombinant Fab format ([TZA001](#)), and the bivalent SpyTag Fab format ([TZA001P](#)) coupled with a HRP conjugated BiSpyCatcher2 ([TZC002P](#)). Either format can be used to develop a pharmacokinetic (PK) antigen capture assay to measure free ipilimumab captured via immobilized CTLA-4.

Protocol: [PK Antigen Capture ELISA](#)

Anti-Ipilimumab monovalent Fab antibody TZA001 can also be converted by the user into alternative antibody formats using any of the SpyCatchers available in our catalog.

[View a summary of all SpyCatcher products](#)

Ipilimumab (Yervoy) is a human IgG1/kappa antibody developed from a transgenic mouse. It has been approved 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 monovalent intrinsic affinity of AbD34294ad was measured as $K_D = 252$ nM by real time, label free molecular interaction analysis on immobilized CTLA-4/ipilimumab complex.

ELISA

Clone AbD34294ad is recommended for use as the detection reagent in an antigen capture assay to measure free ipilimumab captured on immobilized CTLA-4.

Protocol: [PK Antigen Capture 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	<p>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</p> <p>His-tag is a registered trademark of EMD Biosciences</p> <p>Yervoy is a trademark of Bristol-Myers Squibb Company</p>
Health And Safety Information	<p>Material Safety Datasheet documentation #20479 available at: https://www.bio-rad-antibodies.com/SDS/TZA001</p> <p>20479</p>
Licensed Use	<p>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.</p>
Regulatory	<p>For research purposes only</p>
Technical Advice	<p>Recommended protocols for coupling a Fab antibody with a SpyTag to a SpyCatcher can be found at SpyTag and SpyCatcher Products, and further information about HuCAL recombinant antibody technology can be found in the HuCAL Antibodies Technical Manual</p>

Related Products

Recommended Useful Reagents

[HISPEC ASSAY DILUENT \(BUF049A\)](#)
[LYNX RAPID HRP ANTIBODY CONJUGATION KIT \(LNK002P\)](#)
[HUMAN ANTI IPILIMUMAB \(HCA327\)](#)
[HUMAN ANTI IPILIMUMAB \(HCA328\)](#)
[HUMAN ANTI IPILIMUMAB \(HCA329\)](#)
[HUMAN ANTI IPILIMUMAB \(HCA330\)](#)
[HUMAN ANTI IPILIMUMAB \(DRUG/TARGET COMPLEX\) \(HCA331\)](#)
[SpyTag3 PEPTIDE \(BLP086\)](#)

North & South America	<p>Tel: +1 800 265 7376</p> <p>Fax: +1 919 878 3751</p> <p>Email: antibody_sales_us@bio-rad.com</p>	Worldwide	<p>Tel: +44 (0)1865 852 700</p> <p>Fax: +44 (0)1865 852 739</p> <p>Email: antibody_sales_uk@bio-rad.com</p>	Europe	<p>Tel: +49 (0) 89 8090 95 21</p> <p>Fax: +49 (0) 89 8090 95 50</p> <p>Email: antibody_sales_de@bio-rad.com</p>
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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](https://www.bio-rad-antibodies.com/datasheets)

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