

Datasheet: TZA001

**BATCH NUMBER 165520**

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

### 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

<b>Immunogen</b>	Ipilimumab/CTLA-4 complex
<b>Specificity</b>	<p><b>Human Anti-Ipilimumab (Drug/Target Complex) Antibody, clone AbD34294</b> 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.</p> <p>Anti-Ipilimumab monovalent Fab antibody TZA001 has a SpyTag incorporated for conversion by the user into alternative antibody formats using any of the SpyCatchers available in our catalog.</p> <p><a href="#">View a summary of all SpyCatcher products</a></p> <p>Anti-Ipilimumab monovalent Fab antibody TZA001 can be used to develop a pharmacokinetic (PK) antigen capture assay to measure free ipilimumab captured via immobilized CTLA-4.</p> <p>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.</p> <p><a href="#">View a summary of all anti-ipilimumab antibodies</a></p>
<b>Affinity</b>	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.
<b>ELISA</b>	<p>Clone AbD34294ad is recommended for use as the detection reagent in an antigen capture assay to measure free ipilimumab captured on immobilized CTLA-4.</p> <p>Protocol:</p>
<b>Storage</b>	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at <math>-20^{\circ}\text{C}</math> on receipt. When thawed, aliquot the sample as needed. Keep aliquots at <math>2-8^{\circ}\text{C}</math> for short term use (up to 4 weeks) and store the remaining aliquots at <math>-20^{\circ}\text{C}</math>.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
<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 [bio-rad.com/en-us/trademarks](http://bio-rad.com/en-us/trademarks) for details  
His-tag is a registered trademark of EMD Biosciences  
Yervoy is a trademark of Bristol-Myers Squibb Company

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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #20479 available at: <a href="https://www.bio-rad-antibodies.com/SDS/TZA001">https://www.bio-rad-antibodies.com/SDS/TZA001</a> 20479
<b>Licensed Use</b>	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.
<b>Regulatory</b>	For research purposes only
<b>Technical Advice</b>	Recommended protocols for coupling a Fab antibody with a SpyTag to a SpyCatcher can be found at <a href="#">SpyTag and SpyCatcher Products</a> , 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

[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 \(BLP086\)](#)

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Printed on 01 Mar 2024