

Datasheet: TZA001P

**BATCH NUMBER 165521**

<b>Description:</b>	HUMAN ANTI IPILIMUMAB (DRUG/TARGET COMPLEX):HRP
<b>Specificity:</b>	IPILIMUMAB
<b>Other names:</b>	Yervoy
<b>Format:</b>	HRP
<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 bivalent human recombinant Fab (kappa light chain) generated by coupling of the monovalent SpyTagged Fab [TZA001](#) with a HRP conjugated BiSpyCatcher version 2. The coupled antibody has two DYKDDDDK tags and three His6-tags. It contains SpyTag3 peptide ([BLP086](#)) in 5-fold molar excess to block any unreacted Catcher sites. 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

Antibody concentration 0.5 mg/ml

## Concentrations

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**Immunogen** Ipilimumab/CTLA-4 complex

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**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.

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.

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

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.

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](#)

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**Affinity** The monovalent intrinsic affinity of AbD34294pap was measured as  $K_D = 252$  nM by real time, label free molecular interaction analysis on immobilized CTLA-4/ipilimumab complex.

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**ELISA** Clone AbD34294pap is recommended for use as the detection reagent in an antigen capture assay to measure free ipilimumab captured via immobilized CTLA-4.

Protocol:

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**Storage** This product is shipped frozen.  
When ready to use, thaw and aliquot the sample as needed. Store aliquots at  $-70^{\circ}\text{C}$ , if available, otherwise store at  $-20^{\circ}\text{C}$ . It is not recommended to keep aliquots at  $4^{\circ}\text{C}$  for more than one week.

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**Guarantee** 12 months from date of despatch

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**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](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/TZA001P">https://www.bio-rad-antibodies.com/SDS/TZA001P</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>	More information about SpyTag technology 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 \(BUF049A\)](#)

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

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

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

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

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

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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](http://bio-rad-antibodies.com/datasheets)

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