

Datasheet: TZA001P

BATCH NUMBER 165521

Description:	HUMAN ANTI IPILIMUMAB (DRUG/TARGET COMPLEX):HRP
Specificity:	IPILIMUMAB
Other names:	Yervoy
Format:	HRP
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 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

Immunogen Ipilimumab/CTLA-4 complex

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](#)

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.

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:

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

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.

His-tag is a registered trademark of EMD Biosciences.

Yervoy is a trademark of Bristol-Myers Squibb Company.

Health And Safety Information	Material Safety Datasheet documentation #20479 available at: https://www.bio-rad-antibodies.com/SDS/TZA001P 20479
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.
Regulatory	For research purposes only
Technical Advice	More information about SpyTag technology 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

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

'M419889:230626'

Printed on 01 Mar 2024

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