

Datasheet: TZA002

BATCH NUMBER 163202

Description:	HUMAN ANTI DURVALUMAB (DRUG/TARGET COMPLEX)
Specificity:	DURVALUMAB DRUG/TARGET COMPLEX
Other names:	Imfinzi
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD41240
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 <i>E. coli</i> 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	<i>E.coli</i>
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.0095% MIT
Approx. Protein Concentrations	Antibody concentration 0.5 mg/ml

Specificity**Human Anti-Durvalumab (Drug/Target Complex) Antibody, clone AbD41240**

specifically recognizes the antibody drug durvalumab when in complex with its target, PD-L1 (programmed cell death ligand 1). The antibody does not recognize free durvalumab nor unbound recombinant human PD-L1. It can be used to measure levels of durvalumab in patient samples.

This TrailBlazer Antibody is available in two different formats, monovalent Fab unconjugated (TZA002) and bivalent Fab conjugated to HRP (TZA002P). The monovalent recombinant Fab antibody has a SpyTag incorporated, which is used to create the bivalent format by coupling two SpyTagged Fab antibodies to an HRP conjugated BiSpyCatcher2 ([TZC002P](#)). Either format can be used to develop a pharmacokinetic (PK) antigen capture assay to measure free durvalumab captured via immobilized PD-L1.

The antibody is tagged with a SpyTag2 at the C-terminus of the Fab antibody heavy chain, enabling the user to couple it to any of the SpyCatchers in our catalog for conversion to alternative formats in less than one hour.

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

Durvalumab (Imfinzi) is a human IgG1/kappa antibody with allotype G1m3. The CH2 domain was engineered with three amino acid substitutions (L238F, L239E, P335S) to reduce the Fc-mediated effector functions to prevent depletion of PD-L1+ T-cells. It was first approved for previously treated patients with advanced bladder cancer. It was later approved for the treatment of unresectable stage 3 NSCLC (Non-Small Cell Lung Cancer) and ES-SCLC. Durvalumab binds to PD-L1 to block the interaction with the inhibitory T cell receptor PD-1. This blockade removes the suppression of T-cells that are specific for MHC-1-presented neoepitopes on tumor cells. Removal of this inhibitory signal leads to the release of granzymes and perforins by the activated T-cells, and finally to the destruction of the tumor cells.

[View a summary of all anti-durvalumab antibodies](#)

Affinity

The monovalent intrinsic affinity of AbD41240ad was measured as $K_D = 13$ nM by real time, label free molecular interaction analysis on immobilized PD-L1/durvalumab complex.

ELISA

Clone AbD41240ad can be used as the detection antibody in a PK Antigen Capture ELISA to measure durvalumab in complex with PD-L1.

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>Imfinzi is a trademark of Medimmune/AstraZeneca using Abgenix's XenoMouse® technology.</p>
Health And Safety Information	<p>Material Safety Datasheet documentation #20479 available at: https://www.bio-rad-antibodies.com/SDS/TZA002</p>
Licensed Use	For <i>in vitro</i> research purposes only, unless otherwise specified in writing by Bio-Rad.
Regulatory	For research purposes only
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

[HUMAN ANTI DURVALUMAB \(DRUG/TARGET COMPLEX\):HRP \(TZA002P\)](#)

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

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

[SpyTag3 PEPTIDE \(BLP086\)](#)

[HUMAN ANTI DURVALUMAB \(HCA359\)](#)

[HUMAN ANTI DURVALUMAB \(HCA360\)](#)

[HUMAN ANTI DURVALUMAB \(TZA004\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

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)

'M422351:230906'

Printed on 21 Jun 2025