

Datasheet: TZA002

**BATCH NUMBER 163202**

<b>Description:</b>	HUMAN ANTI DURVALUMAB (DRUG/TARGET COMPLEX)
<b>Specificity:</b>	DURVALUMAB DRUG/TARGET COMPLEX
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD41240
<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.

<b>Target Species</b>	Drug
<b>Product Form</b>	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.
<b>Preparation</b>	Metal chelate affinity chromatography
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.0095% MIT
<b>Approx. Protein Concentrations</b>	Antibody concentration 0.5 mg/ml
<b>Immunogen</b>	Durvalumab

<b>Specificity</b>	<p><b>Human Anti-Durvalumab (Drug/Target Complex) Antibody, clone AbD41240</b> 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.</p> <p>Anti-Durvalumab monovalent Fab antibody TZA002 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-Durvalumab monovalent Fab antibody TZA002 can be used to develop a pharmacokinetic (PK) antigen capture assay to measure free durvalumab captured via immobilized PD-L1.</p> <p><a href="#">PK bridging ELISA</a></p> <p>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.</p> <p><a href="#">View a summary of all anti-durvalumab antibodies</a></p>
<b>Affinity</b>	<p>The monovalent intrinsic affinity of AbD41240ad was measured as <math>K_D = 13</math> nM by real time, label free molecular interaction analysis on immobilized PD-L1/dupilumab complex.</p>
<b>ELISA</b>	<p>Clone AbD41240ad can be used as the detection antibody in a PK bridging assay to measure durvalumab in complex with PD-L1.</p> <p>Protocol: <a href="#">PK bridging ELISA</a></p>
<b>Storage</b>	<p>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.</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>	<p>12 months from date of despatch</p>

**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.  
Imfinzi is a trademark of Medimmune/AstraZeneca using Abgenix's XenoMouse® technology.

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**Health And Safety Information** Material Safety Datasheet documentation #20479 available at: <https://www.bio-rad-antibodies.com/SDS/TZA002>  
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**Regulatory** For research purposes only

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**Technical Advice** 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](#)

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## Related Products

### Recommended Useful Reagents

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

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

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

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