## Datasheet: TZA042P

## BATCH NUMBER 167371

| Description: | HUMAN ANTI AVELUMAB (DRUG/TARGET COMPLEX):HRP |
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| Specificity: | AVELUMAB DRUG/TARGET COMPLEX |
| Other names: | Bavencio |
| Format: | HRP |
| Product Type: | Monoclonal Antibody |
| Clone: | AbD42040 |
| 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 |
| :--- | :---: | :---: | :---: |

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.

A bivalent human recombinant Fab (kappa light chain) generated by coupling of the monovalent SpyTagged Fab TZA042 with a HRP conjugated BiSpyCatcher version 2 (TZC002P). 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 <br> Stabilisers | $0.0095 \%$ MIT |
| Approx. Protein | Antibody concentration $0.5 \mathrm{mg} / \mathrm{ml}$ |


| Immunogen | Avelumab/PD-L1 complex |
| :--- | :--- |
| Specificity | Human Anti-Avelumab (Drug/Target Complex) Antibody, clone AbD42040 specifically <br> recognizes the antibody drug avelumab when in complex with its target, PD-L1 <br> (programmed cell death ligand 1). This antibody (TZA042) is non-inhibitory (Type 3) and <br> does not recognize free avelumab nor unbound recombinant human PD-L1. It can be <br> used to measure Avelumab/PD-L1 complex levels in serum from patients. |
|  | TZA042 is available in two formats incorporating a SpyTag: a monovalent recombinant <br> Fab format (TZA042), and the bivalent SpyTag Fab format (TZA042P) coupled with a HRP <br> conjugated BiSpyCatcher2 (TZC002P). Either format can be used to develop a <br> pharmacokinetic (PK) antigen capture assay to measure free avelumab captured via <br> immobilized PD-L1. |
| Protocol: PK Antigen Capture ELISA |  |
| Anti-Avelumab monovalent Fab antibody TZA042 has a SpyTag incorporated for <br> conversion by the user into alternative antibody formats using any of the SpyCatchers <br> available in our catalog. |  |
| View a summary of all SpyCatcher products |  |
| Avelumab (Bavencio) is a human IgG1/lambda antibody with allotype IGHG1*05 <br> (G1m17, 1). It binds to programmed death-ligand 1 (PD-L1, CD274) on tumor cells, |  |
| blocking its interaction with PD-1 and B7-1 receptors on T-lymphocytes. PD-L1 is an <br> immune checkpoint protein expressed on tumor cells and tumor-infiltrating immune cells |  |
| that down regulates T-cell function, so by blocking these receptors anti-tumor T-cell |  |
| activity can be restored. In vitro, the drug has been shown to stimulate natural killer |  |
| cell-mediated direct tumor cell lysis by inducing antibody-dependent cell-mediated |  |
| cytotoxicity. Avelumab has been approved both as monotherapy for the treatment of adult |  |
| patients with metastatic Merkel cell carcinoma (MCC) and for the treatment of advanced |  |
| Renal Cell Carcinoma (RCC). |  |


| 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 <br> non-U.S. patent applications owned by or under license to Bio-Rad Laboratories, Inc. See <br> bio-rad.com/en-us/trademarks for details. <br> His-tag is a registered trademark of EMD Biosciences. <br> Bavencio is a trademark of Merck Serono (Pfizer as co-developer). |
| Health And Safety  <br> Information Material Safety Datasheet documentation \#20479 available at: <br> https://www.bio-rad-antibodies.com/SDS/TZA042P <br> 20479 <br> Licensed Use For in vitro research purposes only, unless otherwise specified in writing by Bio-Rad. <br> Fegulatory research purposes only  <br> Technical Advice Recommended protocols for coupling a Fab antibody with a SpyTag to a SpyCatcher can <br> be found at SpyTag and SpyCatcher Products, and further information about HuCAL <br> recombinant antibody technology can be found in the HuCAL Antibodies Technical Manual |  |

## Related Products

## Recommended Useful Reagents

HISPEC ASSAY DILUENT (BUF049A) HUMAN ANTI AVELUMAB (HCA396) HUMAN ANTI AVELUMAB (HCA397) HUMAN ANTI AVELUMAB (HCA398) HUMAN ANTI AVELUMAB (TZA040) HUMAN ANTI AVELUMAB:HRP (TZA040P) HUMAN ANTI AVELUMAB (TZA041) HUMAN ANTI AVELUMAB (DRUG/TARGET COMPLEX) (TZA042)

| North \& South | Tel: +1 800 2657376 | Worldwide | Tel: $+44(0) 1865852700$ | Europe | Tel: $+49(0) 8980909521$ |
| :--- | :--- | :--- | :--- | :--- | :--- |
| America | Fax: +19198783751 |  | Fax: $+44(0) 1865852739$ |  | Fax: $+49(0) 8980909550$ |
|  | Email: antibody_sales_us@bio-rad.com | Email: antibody_sales_uk@bio-rad.com | Email: antibody_sales_de@bio-rad.com |  |  |

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M429204:240321'

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