

## Datasheet: TZA0128

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|----------------------|---|
| <b>Description:</b>  | HUMAN ANTI TREMELIMUMAB (DRUG/TARGET COMPLEX) |
| <b>Specificity:</b>  | TREMELIMUMAB DRUG/TARGET COMPLEX              |
| <b>Other names:</b>  | Imjudo  |
| <b>Format:</b>       | Purified                                      |
| <b>Product Type:</b> | Monoclonal Antibody                           |
| <b>Clone:</b>        | AbD64586                                      |
| <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 monovalent human recombinant Fab (lambda light chain) selected from the HuCAL® phage display library, expressed in a proprietary *E. coli* 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

*E. coli*

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

0.0095% MIT

### Approx. Protein Concentrations

Antibody concentration 0.5 mg/ml

**Immunogen**CTLA-4/Tremelimumab complex

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**Specificity**

**Human Anti-Tremelimumab (Drug/Target Complex) Antibody, clone AbD54142** specifically recognizes the antibody drug tremelimumab when in complex with its target, cytotoxic T-lymphocyte-associated protein 4 (CTLA-4). It does not recognize free tremelimumab nor unbound CTLA-4.

The monovalent Fab format of this antibody, clone AbD64586ad (**TZA0128**) is tagged with a SpyTag2 at the C-terminus of the Fab heavy chain, enabling the user to couple it to a [SpyCatcher reagent](#) for conversion to alternative formats in less than one hour. This antibody is also available as a bivalent Fab antibody pre-coupled to the HRP-conjugated BiSpyCatcher2 ([TZC002P](#)) under product code **TZA0128P** for direct detection of the Tremelimumab/ CTLA-4 complex in bioanalysis assays.

Clone AbD64586 can be used in pharmacokinetic (PK) antigen capture format assays to measure tremelimumab that has been captured via immobilized CTLA-4. It is ideal for bioanalytical assays to measure the level of drug or biosimilar in complex with the CTLA-4 target.

Tremelimumab (trade name Imjudo) is a fully humanized monoclonal IgG2/kappa antibody with allotype IGHG2\*01. It binds to cytotoxic T-lymphocyte-associated protein 4 (CTLA-4) to enhance T cell-mediated killing of tumours and reduces tumour growth. Tremelimumab in combination with durvalumab and platinum-based chemo-therapy is indicated for the first-line treatment of adults with metastatic non-small cell lung cancer (NSCLC) with no sensitising EGFR mutations or ALK positive mutations.

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

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**Affinity**

The monovalent intrinsic affinity of AbD64586ad was measured as  $K_D = 23$  nM by real time, label free molecular interaction analysis on immobilized human CTLA-4/Tremelimumab complex.

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**ELISA**

Clone AbD64586ad may be used in an indirect ELISA to detect the human CTLA-4/Tremelimumab complex or to detect tremelimumab bound to immobilized human CTLA-4. This antibody can be coupled with SpyCatcher adaptors other than the BiCatcher:HRP adaptor for use as detection antibody. Note: the monovalent Fab format displays low signal in ELISA when used as detection antibody combined with an HRP labeled anti-DYKDDDDK tag antibody. Therefore, we recommend the bivalent HRP labeled format for use as detection antibody.

Protocol: [PK antigen capture ELISA](#)

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**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.

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| <b>Guarantee</b>                     | 12 months from date of despatch   |
| <b>Acknowledgements</b>              | 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 <a href="http://bio-rad.com/en-us/trademarks">bio-rad.com/en-us/trademarks</a> for details.<br>His-tag is a registered trademark of EMD Biosciences.<br>Imjudo is a trademark of Pfizer a now investigated by MedImmune (AstraZeneca). |
| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #20479 available at: <a href="https://www.bio-rad-antibodies.com/SDS/TZA0128">https://www.bio-rad-antibodies.com/SDS/TZA0128</a>  |
| <b>Licensed Use</b>                  | For <i>in vitro</i> research purposes only, unless otherwise specified in writing by Bio-Rad.   |
| <b>Regulatory</b>                    | For research purposes only  |
| <b>Technical Advice</b>              | Recommended protocols for coupling a Fab antibody with a SpyTag to a SpyCatcher 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>  |

## Related Products

### Recommended Useful Reagents

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

[HUMAN ANTI TREMELIMUMAB \(TZA0126\)](#)

[HUMAN ANTI TREMELIMUMAB \(TZA0127\)](#)

[HUMAN ANTI TREMELIMUMAB \(DRUG/TARGET COMPLEX\):HRP \(TZA0128P\)](#)

[HUMAN ANTI TREMELIMUMAB:HRP \(TZA0127P\)](#)

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://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](http://bio-rad-antibodies.com/datasheets)  
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