

Datasheet: TZA0127P

**BATCH NUMBER 172654**

|                      |                             |
|----------------------|-----------------------------|
| <b>Description:</b>  | HUMAN ANTI TREMELIMUMAB:HRP |
| <b>Specificity:</b>  | TREMELIMUMAB                |
| <b>Other names:</b>  | Imjudo                      |
| <b>Format:</b>       | HRP                         |
| <b>Product Type:</b> | Monoclonal Antibody         |
| <b>Clone:</b>        | AbD64580                    |
| <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 bivalent human recombinant Fab (kappa light chain) generated by coupling of the monovalent SpyTagged Fab [TZA0127](#) 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 Stabilisers

0.0095% MIT

### Approx. Protein

Antibody concentration 0.5 mg/ml

## Concentrations

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**Immunogen** Tremelimumab

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**Specificity** **Human Anti-Tremelimumab Antibody, clone AbD64580** is a paratope specific, inhibitory anti-idiotypic antibody (Type 1) that specifically recognizes the humanized monoclonal antibody drug tremelimumab. It does not recognize the drug target CTLA-4, nor tremelimumab in complex with CTLA-4. This antibody can be used to measure free tremelimumab levels in serum from patients.

TZA0127 is available as a monovalent Fab antibody incorporating a SpyTag at the C-terminus end of the antibody heavy chain for conversion by the end user into alternative formats using any of the [SpyCatchers](#) available in our catalog under product code [TZA0127](#). It is also available as a bivalent Fab antibody already conjugated to HRP via coupling to the HRP conjugated BiSpyCatcher2 ([TZC002P](#)) for use in direct ELISA under product code [TZA0127P](#).

A pair of anti-tremelimumab antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug; clone AbD64580 is recommended as a detection antibody, paired with Human Anti-Tremelimumab Antibody, clone AbD64576ad ([TZA0126](#)) as the capture antibody.

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 AbD64580pap was measured as  $K_D = 0.2$  nM by real time, label free molecular interaction analysis on immobilized tremelimumab.

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**ELISA** Clone AbD64580pap may be used as the detection antibody together with AbD64576ad ([TZA0126](#)) as the capture antibody for tremelimumab in a PK bridging ELISA.

Protocol: [PK bridging ELISA](#)

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**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

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**Guarantee** 12 months from date of despatch

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**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.

Imjudo is a trademark of Pfizer and now investigated by MedImmune (AstraZeneca).

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**Health And Safety Information**

Material Safety Datasheet documentation #20479 available at:  
<https://www.bio-rad-antibodies.com/SDS/TZA0127P>

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**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.

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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

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

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

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

[HUMAN ANTI TREMELIMUMAB \(DRUG/TARGET COMPLEX\) \(TZA0128\)](#)

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

**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)  
'M450597:260330'

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