

Datasheet: TZA0127

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| Description: | HUMAN ANTI TREMELIMUMAB |
| Specificity: | TREMELIMUMAB |
| Other names: | Imjudo |
| Format: | Purified |
| Product Type: | Monoclonal Antibody |
| Clone: | AbD64580 |
| 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 (kappa 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

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| Immunogen | Tremelimumab |
| Specificity | <p>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.</p> <p>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.</p> <p>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.</p> <p>Tremelimumab (trade name Imjudo) is a fully humanized monoclonal IgG2/kappa antibody with allotypeIGHG2*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.</p> <p>View a summary of all anti-tremelimumab antibodies</p> |
| Affinity | The monovalent intrinsic affinity of AbD64580ad was measured as $K_D = 0.2$ nM by real time, label free molecular interaction analysis on immobilized tremelimumab. |
| ELISA | <p>Clone AbD64580ad can be used in indirect ELISA to detect tremelimumab. It can also be used as a detection antibody to develop a pharmacokinetic (PK) bridging ELISA for tremelimumab together with TZA0126 as the capture reagent.</p> <p>Protocol: PK bridging ELISA</p> |
| Storage | <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> |
| 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 |

non-U.S. patent applications owned by or under license to Bio-Rad Laboratories, Inc. See [bio-rad.com/en-us/trademarks](https://www.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/TZA0127 |
| Licensed Use | For <i>in vitro</i> research purposes and for commercial applications for the provision of <i>in vitro</i> 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. |
| Regulatory | For research purposes only |
| 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 |

Related Products

Recommended Useful Reagents

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

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

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

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

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

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

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