

Datasheet: TZA0127

BATCH NUMBER 172653

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

Antibody concentration 0.5 mg/ml

Concentrations

Immunogen Tremelimumab

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](#)

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 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.

Protocol: [PK bridging ELISA](#)

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.

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 for details. His-tag is a registered trademark of EMD Biosciences. Imjudo is a trademark of Pfizer and now investigated by MedImmune (AstraZeneca).
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](https://www.bio-rad-antibodies.com/datasheets)
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