

Datasheet: TZA011 BATCH NUMBER 166027

| Description: | HUMAN ANTI ATEZOLIZUMAB |
|----------------------|-------------------------|
| Specificity: | ATEZOLIZUMAB |
| Other names: | Tecentriq |
| Format: | Purified |
| Product Type: | Monoclonal Antibody |
| Clone: | AbD40638 |
| 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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Atezolizumab

Specificity

Human Anti-Atezolizumab Antibody, clone AbD40638 is a paratope specific, inhibitory anti-idiotypic antibody (Type 1) that specifically recognizes the free monoclonal antibody drug atezolizumab. This is a humanized, Fc-engineered IgG1/kappa antibody with allotype nG1m1. The CH2 domain was engineered with one amino acid substitution (N298A) resulting in a non-glycosylated antibody, to impair Fcγ receptor binding and to prevent Fc-mediated depletion of cells expressing PD-L1. The antibody does not recognize free PD-L1 nor atezolizumab in complex with PD-L1.

Anti-Atezolizumab monovalent Fab antibody TZA011 has a SpyTag incorporated for conversion by the user into alternative antibody formats using any of the SpyCatchers available in our catalog.

View a summary of all SpyCatcher products

Clone AbD40638 is also available in full length IgG1 format under product code HCA382.

Anti-Atezolizumab monovalent Fab antibody TZA011 may be used as the capture antibody for atezolizumab in a PK bridging ELISA together with <u>HCA381</u>, clone AbD40992ia as the detection antibody to measure free atezolizumab captured via immobilized PD-L1.

PK bridging ELISA

Atezolizumab (Tecentriq) is a human monoclonal IgG1 antibody that binds directly to Programmed Death Ligand 1 (PD-L1, CD274) and provides a dual blockade of both the PD-1 and B7.1 receptors on T-cells and antigen presenting cells. It is one of the named "checkpoint inhibitor" drugs. PD-L1/PD-1 mediated inhibition of the immune response is thereby released, including reactivation of the anti-tumour immune response without induction of antibody-dependent cellular cytotoxicity. The drug is used to treat urothelial carcinoma, non-small cell lung cancer, triple-negative breast cancer, small cell lung cancer and hepatocellular carcinoma. It is used either on its own or in combination for cancers which are advanced or metastatic.

View a summary of all anti-atezolizumab antibodies

| Affinity | , |
|----------|---|
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The monovalent intrinsic affinity of AbD40638ad was measured as $K_D = 0.4$ nM by real time, label free molecular interaction analysis on immobilized atezolizumab.

ELISA

Clone AbD40638ad can be used as the capture antibody for atezolizumab in a PK ELISA together with <u>HCA381</u> as the detection antibody.

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. Tecentriq is a trademerk of Roche/ Genentech. |
| Health And Safety Information | Material Safety Datasheet documentation #20479 available at: https://www.bio-rad-antibodies.com/SDS/TZA011 20479 |
| 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. |
| 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)

LYNX RAPID HRP ANTIBODY CONJUGATION KIT (LNK002P)

HUMAN ANTI ATEZOLIZUMAB (HCA380)

HUMAN ANTI ATEZOLIZUMAB (HCA381)

HUMAN ANTI ATEZOLIZUMAB (HCA382)

SpyTag3 PEPTIDE (BLP086)

BiSpyCatcher2:HRP (TZC002P)

BiSpyCatcher2:Biotin (TZC002B)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M421773:230725'

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