

# Datasheet: TZA013P BATCH NUMBER 166515

Description:	HUMAN ANTI ATEZOLIZUMAB (DRUG/TARGET COMPLEX):HRP		
Specificity:	ATEZOLIZUMAB DRUG/TARGET COMPLEX		
Other names:	Tecentriq		
Format:	HRP		
Product Type:	Monoclonal Antibody		
Clone:	AbD40640		
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 <u>www.bio-rad-antibodies.com/protocols</u> .					
		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 (lambda light chain) generated by coupling of the monovalent SpyTagged Fab <u>TZA013</u> with a HRP conjugated BiSpyCatcher version 2 ( <u>TZC002P</u> ). The coupled antibody has two DYKDDDDK tags and three His6-tags. It contains SpyTag3 peptide ( <u>BLP086</u> ) 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

Immunogen	Atezolizumab/PD-L1 complex
Specificity	Human Anti-Atezolizumab (Drug/Target Complex) Antibody, clone AbD40640 specifically recognizes the antibody drug atezolizumab when in complex with its target PD-L1 (programmed cell death ligand 1). It does not recognize free atezolizumab nor unbound PD-L1. It can be used to measure levels of atezolizumab in patient samples.
	This TrailBlazer Antibody is available in a purified monovalent Fab format tagged with a SpyTag2 at the C terminus of the Fab antibody heavy chain ( <u>TZA013</u> ), enabling the user to couple it to a SpyCatcher reagent for conversion to alternative formats in less than one hour. It is also available as a bivalent Fab format pre-coupled to the an HRP-conjugated BiSpyCatcher2 for direct detection of atezolizumab under product code <u>TZA013P</u> .
	View a summary of all SpyCatcher products
	Either format can be used to develop a pharmacokinetic (PK) antigen capture assay to measure free atezolizumab captured on immobilized PD-L1.
	Atezolizumab (brand name 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.
Affinity	The monovalent intrinsic affinity of AbD40640pap was measured as $K_D = 91$ nM by real time, label free molecular interaction analysis on immobilized PD-L1/atezolizumab complex.
ELISA	Clone AbD40640pap may be used in a direct ELISA to detect the atezolizumab/PD-L1 complex or to detect atezolizumab bound to immobilized PD-L1.
	Protocol: PK Antigen Capture ELISA
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.
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 trademark of Roche/ Genentech.	
Health And Safety Information	Material Safety Datasheet documentation #20479 available at: https://www.bio-rad-antibodies.com/SDS/TZA013P 20479	
Licensed Use	For in vitro research purposes only, unless otherwise specified	in writing by Bio-Rad.
Regulatory	For research purposes only	
Technical Advice	Recommended protocols for coupling a Fab antibody with a Sp be found at <u>SpyTag and SpyCatcher Products</u> , and further infor recombinant antibody technology can be found in the <u>HuCAL A</u>	mation about HuCAL

## **Related Products**

### **Recommended Useful Reagents**

HISPEC ASSAY DILUENT (BUF049A) HUMAN ANTI ATEZOLIZUMAB (DRUG/TARGET COMPLEX) (TZA013) HUMAN ANTI ATEZOLIZUMAB (TZA011) HUMAN ANTI ATEZOLIZUMAB (HCA380) HUMAN ANTI ATEZOLIZUMAB (HCA381) HUMAN ANTI ATEZOLIZUMAB (HCA382)

North & South Tel: +1 800 265 7376 America Fax: +1 919 878 3751 Email: antibody\_sales\_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700 Europe Fax: +44 (0)1865 852 739 Email: antibody\_sales\_uk@bio-rad.com

Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody\_sales\_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M426556:240202'

### Printed on 03 May 2024

© 2024 Bio-Rad Laboratories Inc | Legal | Imprint