

Datasheet: TZA0143P

**BATCH NUMBER 172699**

<b>Description:</b>	HUMAN ANTI ABATACEPT:HRP
<b>Specificity:</b>	ABATACEPT
<b>Other names:</b>	Orencia
<b>Format:</b>	HRP
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD37058pap
<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 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** Abatacept

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**Specificity** **Human Anti-Abatacept Antibody, clone AbD37058pap** is a paratope specific, inhibitory antibody that specifically recognizes the free fusion protein drug abatacept as well as cytotoxic T-lymphocyte antigen-4 (CTLA-4), also known as CD152.

TZA0143P, clone AbD37058pap is a bivalent Fab antibody already conjugated to HRP via coupling to the HRP conjugated BiSpyCatcher2 ([TZC002P](#)) for use in direct ELISA.

A pair of anti-abatacept antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug; clone AbD37058pap is recommended as a detection antibody, paired with Human Anti-Abatacept Antibody, clone BNI3 ([MCA1724](#)) as the capture antibody.

Abatacept (Orencia) is a recombinant fusion protein consisting of the extra-cellular domain of human CTLA-4, fused to the modified Fc (hinge, CH2, and CH3 domains) portion of human IgG1. It is used to treat several autoimmune diseases, including rheumatoid arthritis, psoriatic arthritis and juvenile idiopathic arthritis, by inhibiting optimal T-cell activation. It binds to CD80 and CD86 on antigen-presenting cells and blocks the costimulatory interaction with CD28 on T cells.

[View a summary of all anti-abatacept antibodies](#)

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**Affinity** The intrinsic affinity of the monovalent form of Human anti abatacept antibody, clone AbD37058pap is  $K_D = 1$  nM as measured by real time, label free molecular interaction analysis on immobilized abatacept.

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**ELISA** Clone AbD37058pap can be used in direct or indirect ELISA to detect abatacept. It can also be used as a detection antibody to develop a pharmacokinetic (PK) bridging ELISA for aflibercept together with [MCA1724](#) as the capture reagent.

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](http://bio-rad.com/en-us/trademarks) for details.  
Orencia is a trademark of Bristol-Myers Squibb Company

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**Health And Safety** Material Safety Datasheet documentation #20479 available at:

<b>Information</b>	<a href="https://www.bio-rad-antibodies.com/SDS/TZA0143P">https://www.bio-rad-antibodies.com/SDS/TZA0143P</a>
<b>Licensed Use</b>	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.
<b>Regulatory</b>	For research purposes only
<b>Technical Advice</b>	Recommended protocols for coupling a Fab antibody with a SpyTag to a SpyCatcher can be found at <a href="#">SpyTag and SpyCatcher Products</a> , and further information about HuCAL recombinant antibody technology can be found in the <a href="#">HuCAL Antibodies Technical Manual</a>

## Related Products

### Recommended Useful Reagents

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

[HUMAN ANTI ABATACEPT \(HCA335\)](#)

[HUMAN ANTI ABATACEPT \(HCA336\)](#)

[MOUSE ANTI HUMAN CD152 \(MCA1724\)](#)

**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)

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