

Datasheet: TZA035P

**BATCH NUMBER 168432**

<b>Description:</b>	HUMAN ANTI PERTUZUMAB (DRUG/TARGET COMPLEX):HRP
<b>Specificity:</b>	PERTUZUMAB DRUG/TARGET COMPLEX
<b>Other names:</b>	Perjeta
<b>Format:</b>	HRP
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD35572
<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 [TZA035](#) 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** Pertuzumab/HER2 complex

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**Specificity** **Human Anti-Pertuzumab (Drug/Target Complex) Antibody, clone AbD35572** specifically recognizes the antibody drug pertuzumab when in complex with its target, the human epidermal growth factor receptor 2 (HER2). It does not recognize free pertuzumab nor unbound HER2.

The monovalent Fab format of this antibody, clone AbD35572ad ([TZA035](#)) is tagged with a SpyTag2 at the C-terminus of the Fab heavy chain, enabling the user to couple it to a [SpyCatcher reagent](#) for conversion to alternative formats in less than one hour.

This antibody is also available as a bivalent Fab antibody pre-coupled to the HRP-conjugated BiSpyCatcher2 ([TZC002P](#)) under product code [TZA035P](#) for direct detection of the pertuzumab/HER2 complex in bioanalysis assays.

Clone AbD35572 can be used in pharmacokinetic (PK) antigen capture format assays to measure pertuzumab that has been captured via immobilized HER2. It is ideal for bioanalytical assays to measure the level of drug or biosimilar in complex with the HER2 target.

Pertuzumab (Perjeta) is an IgG1/kappa antibody humanized from mouse. It has been approved for the treatment of patients with metastatic HER2-positive breast cancer in combination with trastuzumab. Pertuzumab binds to the extracellular domain II of HER2 and inhibits HER2-HER3 dimerization, reducing signaling through intracellular pathways ([Capelan \*et al.\* 2013](#)).

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

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**Affinity** The monovalent intrinsic affinity of AbD35572pap was measured as  $K_D = 79$  nM by real time, label free molecular interaction analysis on immobilized human HER2/pertuzumab complex.

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**ELISA** Clone AbD35572pap may be used in a direct ELISA to detect the human HER2/pertuzumab complex or to detect pertuzumab bound to immobilized human HER2.

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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](#) for details.  
His-tag is a registered trademark of EMD Biosciences.  
Perjeta is a trademark of Genentech, Inc.

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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #20479 available at: <a href="https://www.bio-rad-antibodies.com/SDS/TZA035P">https://www.bio-rad-antibodies.com/SDS/TZA035P</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>

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## Related Products

### Recommended Useful Reagents

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

[ANTI SpyTag \(HCA406\)](#)

[HUMAN ANTI PERTUZUMAB \(HCA341\)](#)

[HUMAN ANTI PERTUZUMAB \(HCA342\)](#)

[HUMAN ANTI PERTUZUMAB \(HCA344\)](#)

[HUMAN ANTI PERTUZUMAB \(HCA345\)](#)

[HUMAN ANTI PERTUZUMAB \(TZA025\)](#)

[HUMAN ANTI PERTUZUMAB:HRP \(TZA025P\)](#)

[HUMAN ANTI PERTUZUMAB \(DRUG/TARGET COMPLEX\) \(TZA035\)](#)

**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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