

Datasheet: TZA025

**BATCH NUMBER 168424**

<b>Description:</b>	HUMAN ANTI PERTUZUMAB
<b>Specificity:</b>	PERTUZUMAB
<b>Other names:</b>	Perjeta
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD35569
<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 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

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**Immunogen** Pertuzumab

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**Specificity** **Human Anti-Pertuzumab Antibody, clone AbD35569** is a non-paratope specific, non-inhibitory anti-idiotypic antibody that specifically recognizes the humanized monoclonal antibody drug pertuzumab. It recognizes free pertuzumab and pertuzumab in complex with its target, the human epidermal growth factor receptor 2 (HER2) but not free HER2. It can be used to measure total levels of pertuzumab and biosimilars in patient samples.

The monovalent Fab format of this antibody, clone AbD35569ad ([TZA025](#)) 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 [TZA025P](#) for direct detection of pertuzumab in bioanalysis assays.

A pair of anti-pertuzumab antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure total drug. Clone AbD35569 can be used as a detection antibody to develop a pharmacokinetic (PK) bridging assay together with [HCA341](#) as the capture antibody.

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 AbD35569ad was measured as  $K_D = 31$  nM by real time, label free molecular interaction analysis on immobilized pertuzumab.

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**ELISA** Clone AbD35569ad can be used in indirect ELISA to detect pertuzumab. It can also be used as a detection antibody, together with [HCA341](#) as the capture antibody to develop a PK bridging ELISA to detect pertuzumab total drug levels in the serum of patients.

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**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.

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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.

His-tag is a registered trademark of EMD Biosciences.

Perjeta is a trademark of Genentech, Inc.

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**Health And Safety Information**

Material Safety Datasheet documentation #20479 available at: <https://www.bio-rad-antibodies.com/SDS/TZA025>  
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**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.

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**Regulatory**

For research purposes only

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**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](#)

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## Related Products

### Recommended Useful Reagents

[SpyTag3 PEPTIDE \(BLP086\)](#)

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

[BiSpyCatcher2:HRP \(TZC002P\)](#)

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

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

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

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

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

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

[HUMAN ANTI PERTUZUMAB \(DRUG/TARGET COMPLEX\):HRP \(TZA035P\)](#)

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**Printed on 12 Sep 2024**

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