

Datasheet: TZA035

Description:	HUMAN ANTI PERTUZUMAB (DRUG/TARGET COMPLEX)
Specificity:	PERTUZUMAB DRUG/TARGET COMPLEX
Other names:	Perjeta
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD35572
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

Immunogen	Pertuzumab/HER2 complex
Specificity	<p>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.</p> <p>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.</p> <p>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.</p> <p>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).</p> <p>View a summary of all anti-pertuzumab antibodies</p>
Affinity	The monovalent intrinsic affinity of AbD35572ad was measured as $K_D = 79$ nM by real time, label free molecular interaction analysis on immobilized human HER2/pertuzumab complex.
ELISA	Clone AbD35572ad may be used in an indirect ELISA to detect the human HER2/pertuzumab complex or to detect pertuzumab bound to immobilized human HER2.
Storage	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
Guarantee	12 months from date of despatch
Acknowledgements	<p>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.</p> <p>His-tag is a registered trademark of EMD Biosciences.</p> <p>Perjeta is a trademark of Genentech, Inc.</p>

Health And Safety Information	Material Safety Datasheet documentation #20479 available at: https://www.bio-rad-antibodies.com/SDS/TZA035 20479
Licensed Use	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.
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 \(BUF049A\)](#)

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

[BiSpyCatcher2:Biotin \(TZC002B\)](#)

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

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

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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](https://www.bio-rad-antibodies.com/datasheets)
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