

Datasheet: HCA176P

Description:	HUMAN ANTI TRASTUZUMAB:HRP
Specificity:	TRASTUZUMAB
Other names:	HERCEPTIN®
Format:	HRP
Product Type:	Monoclonal Antibody
Clone:	AbD16712_hlgG1
Isotype:	IgG1
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	Human IgG1 antibody selected from the HuCAL phage display library and expressed in a human cell line. Conjugated to horseradish peroxidase (HRP) - liquid.
Preparation	Purified IgG prepared by affinity chromatography on Protein A
Source	HKB-11
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.01% Thiomersal
Approx. Protein Concentrations	Antibody concentration 0.1 mg/ml
Immunogen	Trastuzumab (Herceptin®)

Specificity **Human anti Trastuzumab, clone AbD16712_hlgG1**, is an anti-idiotypic antibody that specifically recognizes the humanized monoclonal antibody drug trastuzumab, also known as Herceptin®. Clone AbD16712_hlgG can be used to measure the levels of trastuzumab and biosimilar products using bioanalytical assays.

In the HRP-conjugated format clone AbD16712_hlgG1 is ideal for use as a detection antibody in pharmacokinetic (PK) assays. It is a fully human antibody and therefore may also be used as a calibrator in immune response assays to measure the anti-drug-antibody (ADA) response in patient sera.

Trastuzumab is a drug used in the treatment of HER2 positive breast cancer and other HER2 overexpressing cancers including HER2-positive metastatic cancers of the gastrointestinal tract. Trastuzumab binds to the HER2 (or c-erbB2) proto-oncogene, an EGF receptor-like protein found on 20-30% of breast cancer cells. The binding leads to antibody mediated (complement mediated) killing of the HER2 positive cells

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

Affinity The intrinsic affinity of the monovalent form of this antibody in an unconjugated format is 0.4 nM as measured by real time, label-free molecular interaction analysis on immobilized trastuzumab.

ELISA This product may be used as a detection reagent in a sandwich ELISA together with [HCA169](#) as the capture reagent.
Protocol: [PK bridging ELISA to measure free drug.](#)

References

1. Kashiwagi, N. *et al.* (2017) Method for measuring anti-drug antibody [US Patent Application US20170315118](#)
2. Iwamoto, N. *et al.* (2018) Antibody drug quantitation in coexistence with anti-drug antibodies on nSMOL bioanalysis. [Anal Biochem. 540-541: 30-7.](#)

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

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Health And Safety Information Material Safety Datasheet documentation #10094 available at: <https://www.bio-rad-antibodies.com/SDS/HCA176P>
10094

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form or any other commercial application needs a written agreement with Bio-Rad.

Regulatory For research purposes only

Technical Advice Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the [HuCAL Antibodies Technical Manual](#).

Related Products

Recommended Useful Reagents

[HUMAN ANTI TRASTUZUMAB \(HCA166\)](#)

[HUMAN ANTI TRASTUZUMAB \(HCA169\)](#)

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

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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
'M416645:230302'

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