Datasheet: HCA167

Description:	HUMAN ANTI TRASTUZUMAB
Specificity:	TRASTUZUMAB
Other names:	HERCEPTIN®
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD16714
Isotype:	HuCAL Fab monovalent
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 (lambda light chain) selected from the HuCAL® phage display library, expressed in E. coli. The antibody is tagged with a V5 tag and a double extended Strep-tag at the C-terminus of the antibody heavy chain. Supplied as a liquid.

Preparation

StrepTactin affinity chromatography

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide (NaN_3)

Approx. Protein Concentrations

Antibody concentration 0.5 mg/ml.

Immunogen

Herceptin.

Specificity

Trastuzumab, also known as Herceptin, 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. Herceptin 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.

Clone 16714 is an anti-idiotypic antibody that specifically recognises the Herceptin humanised

	monoclonal antibody and can be used to measure the Heceptin levels in serum from patients. Clone 16714 has been demonstrated to inhibit the Herceptin - HER2 interaction. Removal of the preservative is recommended prior to use in functional assays - Bio-Rad recommend the use of a Slide-A-Lyser® dialysis cassette (EQU003) for this purpose. Additional Trastuzumab (Herceptin) specific anti-idiotypic antibodies are available upon request.
Affinity	The monovalent intrinsic affinity of HCA167 was measured as 2.5nM by real time, label-free molecular interaction analysis using an Attana A200 instrument on immobilized Herceptin.
ELISA	This product may be used in a direct ELISA or as a detection reagent in a sandwich ELISA, when conjugated to HRP, together with HCA169 as the capture reagent. Protocol: PK bridging ELISA to measure free drug
Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	12 months from date of despatch.
Acknowledgements	Sold under license of U.S. Patents 6753136, 7785859 and 8273688 and corresponding patents. This antibody was developed by Bio-Rad, Zeppelinstr. 4, 82178 Puchheim, Germany. Herceptin® is a registered trademark of Genentech, Inc.
Health And Safety Information	Material Safety Datasheet documentation available at: Material Safety Datasheet documentation #10040 available at https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
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.
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 Secondary Antibodies

Mouse Anti Synthetic Peptide STREP-TAG IMMO (MCA2488...)	Purified
Mouse Anti Synthetic Peptide STREP-TAG CLASSIC (MCA2489...)	HRP
Mouse Anti Viral V5-TAG (MCA1360...)	Alk. Phos., Biotin, HRP

Recommended Negative Controls

HuCAL Fab-V5Sx2 NEGATIVE CONTROL (HCA125)

Recommended Useful Reagents

MOUSE ANTI HUMAN IgG (Fc) CH2 DOMAIN:HRP (MCA647P)
HUMAN ANTI TRASTUZUMAB (HCA169)
HUMAN ANTI TRASTUZUMAB (HCA168)
HUMAN ANTI TRASTUZUMAB (HCA166)
HUMAN ANTI TRASTUZUMAB (HCA176)
HISPEC ASSAY DILUENT (BUF049A)
HUMAN ANTI TRASTUZUMAB (HCA177)

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