

## Datasheet: HCA265P

<b>Description:</b>	HUMAN ANTI PANITUMUMAB:HRP
<b>Specificity:</b>	PANITUMUMAB
<b>Other names:</b>	VECTIBIX®
<b>Format:</b>	HRP
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD23897_hlgG1
<b>Isotype:</b>	IgG1
<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.

<b>Product Form</b>	Human IgG1 antibody (lambda light chain) selected from the HuCAL phage display library and expressed in a human cell line. Conjugated to horseradish peroxidase (HRP) - liquid.
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A
<b>Source</b>	HKB-11
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.01% Thiomersal
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Panitumumab

**Specificity** **Human anti panitumumab, clone AbD23897\_hlgG1**, is a paratope specific, high affinity, anti-idiotypic antibody that specifically recognizes the fully human monoclonal antibody drug panitumumab and inhibits it binding to its target, epidermal growth factor receptor (EGFR). The antibody can be used to measure the levels of panitumumab and biosimilar products in bioanalytical assays.

Clone AbD23897\_hlgG1 is a fully human recombinant monoclonal antibody with IgG1 isotype and is suitable as a reference standard in an anti-drug antibody (ADA) assay. Additionally the antibody can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug. This antibody, in full immunoglobulin format, is recommended as the detection antibody, paired with the antibody clone AbD23894 ([HCA264](#)) in monovalent Fab format, as the capture antibody.

Panitumumab (Vectibix®) is a fully human monoclonal antibody (IgG2/kappa) specific to the transmembrane protein EGFR. The drug binds to the extracellular domain of the EGFR, inhibiting the activation of the intracellular signaling cascade. It is approved by the FDA and EMA for the treatment of EGFR-expressing metastatic colorectal cancer.

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

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**Affinity** The intrinsic affinity of the monovalent form of this antibody is  $K_D = 0.3$  nM as measured by real time, label free molecular interaction analysis on immobilized Panitumumab.

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**ELISA** This product may be used as a detection antibody together with [HCA264](#) as the capture reagent.  
Protocol: [PK bridging ELISA to measure free drug](#).

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**References** 1. Kashiwagi, N. *et al.* (2017) Method for measuring anti-drug antibody [US Patent Application US20170315118A1](#)

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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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**Health And Safety Information** Material Safety Datasheet documentation #10094 available at: <https://www.bio-rad-antibodies.com/SDS/HCA265P>  
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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 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

[HUMAN ANTI PANITUMUMAB \(HCA264\)](#)

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

[HUMAN ANTI PANITUMUMAB \(HCA266\)](#)

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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://bio-rad-antibodies.com/datasheets)  
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