

Datasheet: HCA264

BATCH NUMBER 153571

Description:	HUMAN ANTI PANITUMUMAB
Specificity:	PANITUMUMAB
Other names:	VECTIBIX®
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD23894
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 (kappa light chain) selected from the HuCAL® phage display library, expressed in *E. coli*. The antibody is tagged with a DYKDDDDK tag and a HIS-tag (HHHHHH) at the C-terminus of the antibody heavy chain. This antibody is supplied as a liquid.

Preparation

Metal chelate affinity chromatography

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.01% Thiomersal

Approx. Protein Concentrations

Antibody concentration 0.5 mg/ml

Immunogen

Panitumumab

Specificity

Human anti panitumumab clone AbD23894, is a paratope specific, high affinity, anti-idiotypic antibody that specifically recognizes the 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.

Our anti panitumumab antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug. This antibody, in monovalent Fab format, is recommended as the capture antibody, paired with an antibody in full immunoglobulin (Ig) format as the detection antibody, clone AbD23897_hIgG1 ([HCA265](#)) or clone AbD23895_hIgG1 ([HCA266](#)). The antibody in Ig format can also be used to develop and calibrate immune response assays to measure the anti-drug antibody (ADA) response in patient sera.

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 signalling 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](#)

Affinity

The monovalent intrinsic affinity of this antibody was measured as $K_D = 0.3$ nM by real time, label free molecular interaction analysis on immobilized panitumumab.

ELISA

This product may be used in direct or indirect ELISA and in an ELISA bridging assay as a capture antibody together with [HCA265](#) or [HCA266](#) as the detection reagent when conjugated to a suitable label, e.g. HRP.

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.

Guarantee

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.

His-tag is a registered trademark of EMD Biosciences.

Health And Safety Information

Material Safety Datasheet documentation #10094 available at: <https://www.bio-rad-antibodies.com/SDS/HCA264>
10094

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

- Rat Anti Synthetic Peptide DYKDDDDK TAG (MCA4764...) [HRP](#)
- Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA5995...) [HRP](#)
- Goat Anti Human IgG F(ab')2 (0500-0099...) [HRP](#)

Recommended Useful Reagents

- [HUMAN ANTI PANITUMUMAB \(HCA265\)](#)
- [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

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