

Datasheet: HCA264

**BATCH NUMBER 168871**

<b>Description:</b>	HUMAN ANTI PANITUMUMAB
<b>Specificity:</b>	PANITUMUMAB
<b>Other names:</b>	VECTIBIX®
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD23894
<b>Isotype:</b>	HuCAL Fab monovalent
<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.

### 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.

### Source

*E.coli*

### Buffer Solution

Phosphate buffered saline.

### Preservative Stabilisers

0.09% Sodium Azide (NaN<sub>3</sub>)

### Approx. Protein Concentrations

Antibody concentration 0.5 mg/ml.

<b>Immunogen</b>	Panitumumab
<b>Specificity</b>	<p><b>Human anti panitumumab clone AbD23894</b>, 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.</p> <p>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 (<a href="#">HCA265</a>) or clone AbD23895_hIgG1 (<a href="#">HCA266</a>). 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.</p> <p>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.</p> <p><a href="#">View a summary of all anti panitumumab antibodies</a></p>
<b>Affinity</b>	The intrinsic affinity of the monovalent form of this antibody is $K_D = 0.3 \text{ nM}$ as measured by real time, label free molecular interaction analysis on immobilized panitumumab.
<b>ELISA</b>	<p>This product may be used in direct or indirect ELISA and in an ELISA bridging assay as a capture antibody together with <a href="#">HCA265</a> or <a href="#">HCA266</a> as the detection reagent when conjugated to a suitable label, e.g. HRP.</p> <p>Protocol: <a href="#">PK bridging ELISA to measure free drug</a>.</p>
<b>Storage</b>	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at <math>-20^\circ\text{C}</math> on receipt. When thawed, aliquot the sample as needed. Keep aliquots at <math>2\text{-}8^\circ\text{C}</math> for short term use (up to 4 weeks) and store the remaining aliquots at <math>-20^\circ\text{C}</math>.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
<b>Guarantee</b>	12 months from date of despatch.
<b>Acknowledgements</b>	<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 <a href="http://bio-rad.com/en-us/trademarks">bio-rad.com/en-us/trademarks</a> for details.</p> <p>His-tag is a trademark of EMD Biosciences.</p>
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/HCA264">https://www.bio-rad-antibodies.com/SDS/HCA264</a></p> <p>10040</p>

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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 Secondary Antibodies

Rat Anti Synthetic Peptide DYKDDDDK TAG (MCA4764...) [HRP](#)

Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA5995...) [HRP](#)

Goat Anti Human IgG F(ab')<sub>2</sub> (0500-0099...) [HRP](#)

### Recommended Useful Reagents

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

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

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

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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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**Printed on 29 Aug 2024**

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