

## Datasheet: HCA221P

**BATCH NUMBER 169130**

<b>Description:</b>	HUMAN ANTI CETUXIMAB:HRP
<b>Specificity:</b>	CETUXIMAB
<b>Format:</b>	HRP
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD19830_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>	Total protein concentration 1.0 mg/ml
<b>Immunogen</b>	Cetuximab.
<b>Specificity</b>	<b>Human anti Cetuximab, clone AbD19830_hlgG1</b> , is an anti-idiotypic antibody that binds

specifically to cetuximab and inhibits the binding of the drug to its target. Human anti Cetuximab, clone AbD19830\_hIgG1 can be used to measure the levels of cetuximab and biosimilar products using bioanalytical assays.

In the HRP-conjugated format clone AbD19830\_hIgG1 is ideal for use as 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.

Cetuximab (brand name Erbitux®) is a chimeric monoclonal antibody drug (IgG1/kappa) approved for treatment of KRAS wild-type metastatic colorectal cancers and squamous cell carcinoma of the head and neck. This therapeutic antibody, directed against the Epidermal Growth Factor Receptor (EGFR), inhibits tumor cell proliferation by blocking the interaction of Epidermal Growth Factor (EGF) with its receptor.

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

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<b>Affinity</b>	The monovalent intrinsic affinity of this antibody in an unconjugated format is $K_D = 1.7$ nM as measured by real time, label free molecular interaction analysis on immobilized cetuximab.
<b>ELISA</b>	This product may be used as a detection reagent in a bridging ELISA for PK assay development together with <a href="#">HCA220</a> as the capture reagent. Protocol: <a href="#">PK bridging ELISA to measure free drug.</a>
<b>Further Reading</b>	1. Gomez, D. <i>et al.</i> (2013) Cetuximab therapy in the treatment of metastatic colorectal cancer: the future frontier? <a href="#">Int J Surg. 11 (7): 507-13.</a>
<b>Storage</b>	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.
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	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.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10094 available at: <a href="https://www.bio-rad-antibodies.com/SDS/HCA221P">https://www.bio-rad-antibodies.com/SDS/HCA221P</a>
<b>Licensed Use</b>	For <i>in vitro</i> research purposes and for commercial applications for the provision of <i>in vitro</i> 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.
<b>Regulatory</b>	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 CETUXIMAB \(HCA220\)](#)

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

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)

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**Printed on 11 Feb 2026**

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