

Datasheet: HCA221P

Description:	HUMAN ANTI CETUXIMAB:HRP
Specificity:	CETUXIMAB
Format:	HRP
Product Type:	Monoclonal Antibody
Clone:	AbD19830_hlgG1
Isotype:	IgG1
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	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.
Preparation	Purified IgG prepared by affinity chromatography on Protein A
Source	HKB-11
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.0095% MIT
Approx. Protein Concentrations	Total protein concentration 1.0 mg/ml
Immunogen	Cetuximab.
Specificity	Human anti Cetuximab, clone AbD19830_hlgG1 , 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_hlgG1 can be used to measure the levels of cetuximab and biosimilar products using bioanalytical assays.

In the HRP-conjugated format clone AbD19830_hlgG1 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.](#)

Affinity	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.
ELISA	This product may be used as a detection reagent in a bridging ELISA for PK assay development together with HCA220 as the capture reagent. Protocol: PK bridging ELISA to measure free drug.
Further Reading	1. Gomez, D. <i>et al.</i> (2013) Cetuximab therapy in the treatment of metastatic colorectal cancer: the future frontier? Int J Surg. 11 (7): 507-13.
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.
Guarantee	12 months from date of despatch
Acknowledgements	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 bio-rad.com/en-us/trademarks for details.
Health And Safety Information	Material Safety Datasheet documentation #20479 available at: https://www.bio-rad-antibodies.com/SDS/HCA221P20479
Licensed Use	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.
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 Useful Reagents

[HUMAN ANTI CETUXIMAB \(HCA220\)](#)

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

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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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