

Datasheet: HCA222

Description:	HUMAN ANTI CETUXIMAB
Specificity:	CETUXIMAB
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD19834_hIgG1
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 selected from the HuCAL® phage display library and expressed in a human cell line. This product is supplied as a liquid.
Preparation	Purified IgG prepared by affinity chromatography on Protein A
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.01% Thiomersal
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml
Immunogen	Cetuximab.

Specificity

Human anti Cetuximab, clone AbD19834_IgG1, is an anti-idiotypic antibody that binds specifically to cetuximab and inhibits the binding of the drug to its target, epidermal growth factor receptor (EGFR). It can be used in bioanalytical assays to measure the levels of cetuximab and biosimilar products in preclinical research and clinical trials.

Human anti Cetuximab, clone AbD19834_IgG1 is a fully human antibody and is particularly suited as a calibrator for immune response assays to measure the anti-drug antibody (ADA) levels 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 is directed against EGFR and 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 HCA222 was measured as $K_D = 0.5$ nM by real time, label free molecular interaction analysis on immobilized cetuximab.
ELISA	This product is suitable for use in direct ELISA applications or as a bridging reagent in ADA assays. Protocol: PK bridging ELISA to measure free drug Protocol: ADA bridging ELISA
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	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. Erbitux® is a registered trademark of ImClone LLC, a wholly-owned subsidiary of Eli Lilly and Company.
Health And Safety Information	Material Safety Datasheet documentation #10094 available at: 10094: https://www.bio-rad-antibodies.com/uploads/MSDS/10094.pdf
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 Useful Reagents

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

[LYNX RAPID HRP ANTIBODY CONJUGATION KIT \(LNK002P\)](#)

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