

Datasheet: HCA368

BATCH NUMBER 164657

Description:	HUMAN ANTI CEMIPILIMAB
Specificity:	CEMIPILIMAB
Other names:	Libtayo
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD41947ia
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. This antibody 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	Antibody concentration 0.5 mg/ml.
Immunogen	Cemiplimab
Specificity	Human Anti-Cemiplimab Antibody, clone AbD41947ia is a paratope specific, inhibitory

anti-idiotypic antibody that specifically recognizes the fully human monoclonal antibody cemiplimab. It does not recognize free human programmed death receptor-1 (PD-1) nor cemiplimab in complex with PD-1. The antibody can be used to measure free cemiplimab in patient samples.

Clone AbD41947ia is a fully human recombinant monoclonal antibody with IgG1 isotype and can be used as a surrogate positive control or reference standard in an anti-drug antibody (ADA) assay. This antibody has a monovalent intrinsic affinity of 2 nM, and is one of three antibodies with different affinities offered for ADA assays.

A pair of anti-cemiplimab antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug. This antibody can be used as a detection reagent, paired with Anti-Cemiplimab Antibody, clone AbD41947ad ([TZA006](#)) in monovalent Fab format as the capture antibody.

Cemiplimab (Libtayo) is a fully human IgG4/kappa antibody. It has been approved for the treatment of patients with metastatic cutaneous squamous cell carcinoma (CSCC) and for the first-line treatment of patients with advanced non-small cell lung cancer (NSCLC) whose tumours have high PD-L1 expression. Cemiplimab acts as a checkpoint inhibitor by binding to the PD-1 receptor and blocking its interaction with PD-L1 and PD-L2 ligands.

[View a summary of all anti-cemiplimab antibodies](#)

Affinity

The intrinsic affinity of the monovalent form of Human anti Cemiplimab antibody, clone AbD41947ia is $K_D = 2$ nM as measured by real time, label free molecular interaction analysis on immobilized Cemiplimab.

ELISA

Human anti Cemiplimab antibody, clone AbD41947ia can be used as detection antibody for Cemiplimab in a bridging ELISA together with [TZA006](#) as the capture reagent. It can also be used as a surrogate positive control or calibrator in an anti-drug antibody assay. Protocol: [PK bridging ELISA](#). Protocol: [ADA bridging ELISA](#).

Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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. Libtayo is a trademark of Regeneron Pharmaceuticals, Inc.

Health And Safety

Material Safety Datasheet documentation #10094 available at:

Information <https://www.bio-rad-antibodies.com/SDS/HCA368>
10094

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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

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

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

[HUMAN ANTI CEMIPILIMAB \(HCA367\)](#)

[HUMAN ANTI CEMIPILIMAB \(HCA369\)](#)

[HUMAN ANTI CEMIPILIMAB \(TZA006\)](#)

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Printed on 01 Mar 2024