

Datasheet: HCA331

BATCH NUMBER 160508

Description:	HUMAN ANTI IPILIMUMAB (DRUG/TARGET COMPLEX)
Specificity:	IPILIMUMAB
Other names:	Yervoy
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD34294
Isotype:	HuCAL Fab monovalent
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	A monovalent human recombinant Fab (lambda light chain) selected from the HuCAL® phage display library, expressed in <i>E. coli</i> . The antibody is tagged with a DYKDDDDK tag and a double extended Strep-tag (SAWSHPQFEKGGGSGGGSGGSAWSHPQFEK). This antibody is supplied as a liquid.
Preparation	StrepTactin affinity chromatography
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.01% Thiomersal
Approx. Protein Concentrations	Antibody concentration 0.5 mg/ml
Immunogen	Ipilimumab/CTLA-4 complex

Specificity

Human Anti-Ipilimumab Antibody, clone AbD34294 specifically recognizes the monoclonal antibody drug ipilimumab when in complex with its target, CTLA-4 (cytotoxic T-lymphocyte antigen-4). The antibody does not recognize free ipilimumab or unbound recombinant human CTLA-4. It can be used to measure levels of ipilimumab in patient samples.

Clone AbD34294 is a monovalent Fab format antibody that can be used to develop a pharmacokinetic (PK) antigen capture assay to measure free ipilimumab captured via immobilized CTLA-4.

Ipilimumab (Yervoy) is a human IgG1/kappa antibody developed from a transgenic mouse. It has been approved by the FDA for the treatment of metastatic melanoma, renal cell carcinoma, and in combination with nivolumab for the treatment of previously treated microsatellite instability-high/deficient mismatch repair (MSI-H/dMMR) metastatic colorectal cancer. Ipilimumab activates the immune system by targeting CTLA-4, a protein receptor that downregulates the immune system. The action of cytotoxic T lymphocytes (CTLs) to recognize and destroy cancer cells is subject to an inhibitory mechanism that interrupts this destruction. Ipilimumab turns off this inhibitory mechanism and allows CTLs to function.

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

Affinity

The monovalent intrinsic affinity of AbD34294 was measured as $K_D = 252$ nM by real time, label free molecular interaction analysis on immobilized CTLA-4/ipilimumab complex.

ELISA

Clone AbD34294 is recommended for use as the detection reagent in an antigen capture assay to measure free ipilimumab captured via immobilized CTLA-4.

Protocol: [PK antigen capture ELISA to measure bound drug exclusively](#)

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

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Yervoy is a trademark of Bristol-Myers Squibb Company.

Health And Safety Information

Material Safety Datasheet documentation #10094 available at: <https://www.bio-rad-antibodies.com/SDS/HCA331>
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 Secondary Antibodies

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

Recommended Useful Reagents

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

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

[HUMAN ANTI IPILIMUMAB \(HCA327\)](#)

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