

Datasheet: HCA301 BATCH NUMBER 167500

Description:	scription: HUMAN ANTI NIVOLUMAE	
Specificity:	NIVOLUMAB	
Other names:	Opdivo	
Format:	Purified	
Product Type:	Monoclonal Antibody	
Clone:	AbD30258_hlgG1	
Isotype:	lgG1	
Quantity:	0.1 mg	

Product Details

Appl	ications
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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.

	162	INO	Not Determined	Suggested Dilution	
ELISA	•				
Where this product has r	ot been te	sted for	use in a particular ted	chnique this does not	

Suggested Dilution

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.

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Preparation	Purified IgG prepared by affinity chromatography on Protein A
Source	HKB-11
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	Antibody concentration 0.5 mg/ml
Immunogen	Nivolumab

Specificity

Human Anti-Nivolumab Antibody, clone AbD30258_hlgG1 is a paratope specific, inhibitory anti-idiotypic antibody that specifically recognizes the monoclonal antibody drug nivolumab. The antibody does not recognize recombinant human programmed cell death 1 (PD-1) or nivolumab in complex with recombinant human PD-1 and can be used to measure free nivolumab levels in serum from patients.

Clone AbD30258_hlgG1 is a fully human recombinant monoclonal antibody with lgG1 isotype and is suitable as a reference standard in an anti-drug antibody (ADA) assay. A pair of anti-nivolumab antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug. This antibody, in full immunoglobulin format, is recommended as the detection antibody paired with clone AbD30255 (HCA299) in monovalent Fab format as the capture antibody.

Nivolumab (Opdivo) is a fully human antibody (IgG4/kappa), with the heavy chain mutation S228P (IgG4-Pro). It is used as a first line treatment for inoperable or metastatic melanoma in combination with ipilimumab if the cancer does not have a mutation in BRAF. It is also approved for treatment of advanced non-small cell lung cancer, advanced renal cell carcinoma, classical Hodgkin's lymphoma and advanced head and neck squamous cell carcinoma. Nivolumab is a checkpoint inhibitor and acts as an immuno-modulator by blocking ligand activation of PD-1 receptor on T cells, thereby activating T cells to attack the cancer. Nivolumab blocks PD-1 interaction with PD-1 ligand (PD-L1) and PD-1 ligand 2 (PD-L2).

View a summary of all anti-nivolumab antibodies

Affinity

The intrinsic affinity of the monovalent form of Human anti Nivolumab antibody, clone AbD30258_hlgG1 is $K_D = 2$ nM as measured by real time, label free molecular interaction analysis on immobilized Nivolumab.

ELISA

Human anti Nivolumab antibody, clone AbD30258_hlgG1 can be used in a direct or indirect ELISA or as detection antibody for Nivolumab in a bridging ELISA together with HCA299 as the capture reagent. Furthermore, it may be used as a calibrator for the set-up of an anti-drug antibody assay.

Protocol: PK bridging ELISA to measure free drug and anti-drug antibody assay.

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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	Opdivo is a trademark of Bristol-Myers Squibb Company.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/HCA301 10040
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 <u>HuCAL Antibodies Technical Manual</u> .

Related Products

Recommended Negative Controls

RECOMBINANT HUMAN IgG1 LAMBDA ALLOTYPE G1m3 (HCA049)

Recommended Useful Reagents

LYNX RAPID HRP ANTIBODY CONJUGATION KIT (LNK002P)
HISPEC ASSAY DILUENT (BUF049A)
MOUSE ANTI HUMAN IgG (Fc) CH2 DOMAIN:HRP (MCA647P)
HUMAN ANTI NIVOLUMAB (HCA299)

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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 'M421024:230706'

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