Datasheet: HCA300 BATCH NUMBER 168720

Description:	HUMAN ANTI NIVOLUMAB
Specificity:	NIVOLUMAB
Other names:	Opdivo
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD30255_hlgG1
Isotype:	lgG1
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 <u>www.bio-rad-antibodies.com/protocols</u> .					
		Yes	No	Not Determined	Suggested Dilution	
	ELISA	•				
	Where this product has not necessarily exclude its use a guide only. It is recomme system using appropriate n	in such Inded tha	procedur at the use	es. Suggested workin r titrates the product t	g dilutions are given as	
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 a	ffinity chi	romatogra	aphy 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 AbD30255_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 AbD30255_hIgG1 is a fully human recombinant monoclonal antibody with IgG1 isotype and is suitable as a reference standard in an anti-drug antibody (ADA) assay.				
	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 AbD30255_hlgG1 is $K_D = 0.5$ nM as measured by real time, label free molecular interaction analysis on immobilized Nivolumab.				
ELISA	Human anti Nivolumab antibody, clone AbD30255_hIgG1 can be used in a direct or indirect ELISA. Furthermore, it may be used as a calibrator for the set-up of an anti-drug antibody assay.				
	Protocol: 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	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. 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/HCA300 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

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

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	Email: antibody_sales_us@bio-ra	id.com	Email: antibody_sales_uk@bio-ra	d.com	Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M430097:240503'

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