

Datasheet: HCA297 BATCH NUMBER 162370

Description:	HUMAN ANTI PEMBROLIZUMAB
Specificity:	PEMBROLIZUMAB
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD30685_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	•	a at a d far		nimus this does not	
	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 cł	nromatog	raphy on Protein A		
Buffer Solution	Phosphate buffered salir	ne				
Preservative Stabilisers	0.01% Thiomersal					
Approx. Protein Concentrations	Antibody concentration 0.5 mg/ml					
Immunogen	Pembrolizumab					
Specificity	Human Anti-Pembroliz inhibitory anti-idiotypic a monoclonal antibody per	ntibody the	at specifie	cally recognizes the free	e humanized	

human programmed cell death 1 (PD-1) or pembrolizumab in complex with recombinant human PD-1 and can be used to measure free pembrolizumab levels in serum from patients.

Clone AbD30685_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. A
pair of anti-pembrolizumab 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 AbD30689 (<u>HCA296</u>) in
monovalent Fab format as the capture antibody.

Pembrolizumab (Keytruda) is a humanized (IgG4/kappa) antibody with the heavy chain mutation S228P (IgG4-Pro). Pembrolizumab is used to treat inoperable or metastatic melanoma, metastatic non-small cell lung cancer (NSCLC), and as a second-line treatment for head and neck squamous cell carcinoma (HNSCC). For NSCLC, pembrolizumab is a first line treatment if the cancer overexpresses PDL1 and has no mutations in EGFR or ALK. Pembrolizumab is a checkpoint inhibitor and acts as an immunomodulator by blocking ligand activation of PD-1 receptor on T cells, thereby activating T cells to attack the cancer. It blocks PD-1 interaction with PD-1 ligand (PD-L1) and PD-1 ligand 2 (PD-L2).

View a summary of all anti-pembrolizumab antibodies

Affinity	The monovalent intrinsic affinity of AbD30685_hIgG1 was measured as $K_D = 5$ nM by real time, label free molecular interaction analysis on immobilized pembrolizumab.
ELISA	Clone AbD30685_hIgG1 can be used in a direct or indirect ELISA or as detection antibody for pembrolizumab in a bridging ELISA together with <u>HCA296</u> 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	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. Keytruda is a trademark of Merck & Co.
Health And Safety Information	Material Safety Datasheet documentation #10094 available at: https://www.bio-rad-antibodies.com/SDS/HCA297

	10094		
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 <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 PEMBROLIZUMAB (HCA296)

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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 'M391811:211015'

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