

# Datasheet: HCA296 BATCH NUMBER 147826

Description:	HUMAN ANTI PEMBROLIZUMAB
Specificity:	PEMBROLIZUMAB
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD30689
Isotype:	HuCAL Fab monovalent
Quantity:	0.1 mg

## **Product Details**

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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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	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 E. coli. The antibody is tagged with a DYKDDDK tag and a HIS-tag (HHHHHH). This antibody is supplied as a liquid.

Specificity	Human Anti-Pembrolizumab Antibody, clone AbD30689 is a
Immunogen	Pembrolizumab
Approx. Protein Concentrations	Antibody concentration 0.5 mg/ml
Preservative Stabilisers	0.01% Thiomersal
Buffer Solution	Phosphate buffered saline
Preparation	Metal chelate affinity chromatography
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**Human Anti-Pembrolizumab Antibody, clone AbD30689** is a paratope specific, inhibitory anti-idiotypic antibody that specifically recognizes the free humanized

monoclonal antibody pembrolizumab. The antibody does not recognize recombinant 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.

A pair of anti-pembrolizumab antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug. This antibody, in monovalent Fab format, is recommended as the capture antibody, paired with an HRP conjugated Anti-Pembrolizumab Antibody in full immunoglobulin format, clone AbD30685\_hlgG1 (HCA297) as the detection 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). Pembrolizumab is a first line treatment for NSCLC 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 AbD30689 was measured as $K_D$ = 0.6 nM by real time, label free molecular interaction analysis on immobilized pembrolizumab
ELISA	Clone AbD30689 can be used in a direct or indirect ELISA or as the capture antibody for pembrolizumab in a bridging ELISA together with <u>HCA297</u> as the detection reagent.
	Protocol: PK bridging ELISA to measure free drug
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. His-tag is a registered trademark of EMD Biosciences.

Health And Safety
Information

Material Safety Datasheet documentation #10094 available at:
https://www.bio-rad-antibodies.com/SDS/HCA296

	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 Useful Reagents**

HISPEC ASSAY DILUENT (BUF049A)
LYNX RAPID HRP ANTIBODY CONJUGATION KIT (LNK002P)
HUMAN ANTI PEMBROLIZUMAB (HCA297)

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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 'M391810:211015'

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