

Datasheet: HCA297 BATCH NUMBER 165374

| Description: | HUMAN ANTI PEMBROLIZUMAB | | |
|----------------------|--------------------------|--|--|
| Specificity: | PEMBROLIZUMAB | | |
| Format: | Purified | | |
| Product Type: | Monoclonal Antibody | | |
| Clone: | AbD30685_hlgG1 | | |
| Isotype: | lgG1 | | |
| Quantity: | 0.1 mg | | |
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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

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 Buffer Solution

Purified IgG prepared by affinity chromatography on Protein A

Preservative Stabilisers

0.09% Sodium Azide (NaN₃)

Phosphate buffered saline

Approx. Protein Concentrations

Antibody concentration 0.5 mg/ml

Immunogen

Pembrolizumab

Specificity

Human Anti-Pembrolizumab Antibody, clone AbD30685_hlgG1 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.

Clone AbD30685_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-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 (HCA296) 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

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The intrinsic affinity of the monovalent form of Human anti Pembrolizumab antibody, clone AbD30685_hlgG1 is $K_D = 5$ nM as measured by real time, label free molecular interaction analysis on immobilized Pembrolizumab.

ELISA

Clone AbD30685_hlgG1 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

Material Safety Datasheet documentation #10040 available at:

| Information | https://www.bio-rad-antibodies.com/SDS/HCA297 10040 | | |
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| 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 'M417479:230330'

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