# Datasheet: HCA298

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| **Description:** | HUMAN ANTI PEMBROLIZUMAB |
| **Specificity:** | PEMBROLIZUMAB |
| **Format:** | Purified |
| **Product Type:** | Monoclonal Antibody |
| **Clone:** | AbD30689_hIgG1 |
| **Isotype:** | IgG1 |
| **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 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**

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**

Pembrolizumab

**Specificity**

**Human Anti-Pembrolizumab Antibody, clone AbD30689_hIgG1** 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 AbD30689_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.

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 intrinsic affinity of the monovalent form of Human anti Pembrolizumab antibody, clone AbD30689_hIgG1 is $K_D$ = 0.6 nM as measured by real time, label free molecular interaction analysis on immobilized Pembrolizumab.

**ELISA**

Human anti Pembrolizumab antibody, clone AbD30689_hIgG1 can be used in a direct or indirect ELISA or as a detection antibody for pembrolizumab. It may also be used as a surrogate positive control to generate a standard curve for 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.
Keytruda is a trademark of Merck & Co.

**Health And Safety Information**

Material Safety Datasheet documentation #10040 available at:
https://www.bio-rad-antibodies.com/SDS/HCA298
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 HuCAL Antibodies Technical Manual. |

## 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)
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

'M428468:240301'

**Printed on 12 Mar 2024**

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