

Datasheet: HCA298

BATCH NUMBER 148706

| | |
|----------------------|--------------------------|
| Description: | HUMAN ANTI PEMBROLIZUMAB |
| Specificity: | PEMBROLIZUMAB |
| Format: | Purified |
| Product Type: | Monoclonal Antibody |
| Clone: | AbD30689_hlgG1 |
| 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 |
|--------------------|---|

| | |
|------------------------|---------------------------|
| Buffer Solution | Phosphate buffered saline |
|------------------------|---------------------------|

| | |
|---------------------------------|------------------|
| Preservative Stabilisers | 0.01% Thiomersal |
|---------------------------------|------------------|

| | |
|---------------------------------------|----------------------------------|
| Approx. Protein Concentrations | Antibody concentration 0.5 mg/ml |
|---------------------------------------|----------------------------------|

| | |
|------------------|---------------|
| Immunogen | Pembrolizumab |
|------------------|---------------|

| | |
|--------------------|--|
| Specificity | Human Anti-Pembrolizumab Antibody, clone AbD30689_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 AbD30689_hlgG1 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 monovalent intrinsic affinity of AbD30689_hlgG1 was measured as $K_D = 0.6$ nM by real time, label free molecular interaction analysis on immobilized pembrolizumab. |
| ELISA | Clone AbD30689_hlgG1 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 | Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. |
| Guarantee | 12 months from date of despatch |
| Acknowledgements | Sold under license of U.S. Patents 6753136, 7785859 and 8273688 and corresponding patents. This antibody was developed by Bio-Rad, Zeppelinstr. 4, 82178 Puchheim, Germany. 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/HCA29810094 |
| 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 ALLOTYPIC 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 \(HCA297\)](#)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

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

'M371740:200612'

Printed on 12 Mar 2024

© 2024 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)