

Datasheet: HCA297P BATCH NUMBER 168151

| Description: | HUMAN ANTI PEMBROLIZUMAB:HRP | | | |
|---------------|------------------------------|--|--|--|
| Specificity: | PEMBROLIZUMAB | | | |
| Format: | HRP | | | |
| Product Type: | Monoclonal Antibody | | | |
| Clone: | AbD30685_hlgG1 | | | |
| lsotype: | 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 | • | | | | | |
| | 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 conjugated to horseradish peroxidase (HRP) and supplied as liquid. | | | | | | |
| Preparation | Purified IgG prepared by | affinity cł | nromatog | raphy on Protein A | | | |
| Source | HKB-11 | | | | | | |
| Buffer Solution | Phosphate buffered salir | ne | | | | | |
| Preservative Stabilisers | 0.0095% MIT | | | | | | |
| Approx. Protein Concentrations | Antibody concentration 1.0 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 |
| Affinity | The intrinsic affinity of the monovalent form of Human anti Pembrolizumab antibody, clone AbD30685_hIgG1 is $K_D = 5$ nM as measured by real time, label free molecular interaction analysis on immobilized Pembrolizumab. |
| ELISA | Human anti Pembrolizumab antibody, clone AbD30685_hIgG1 can be used in a direct ELISA or as detection antibody for pembrolizumab in a bridging ELISA together with <u>HCA296</u> as the capture reagent. |
| | Protocol: PK bridging ELISA to measure free drug. |
| References | 1. Engström, J. (2023) Gyrolab Immunoassays: Miniaturization, Automation, and Integration into a Rapid Workflow. <u>Methods Mol Biol. 2612: 109-27.</u> |
| Storage | This product is shipped frozen. When ready to use, thaw and aliquot the sample as needed. Store aliquots at -70°C, if available, otherwise store at -20°C. It is not recommended to keep aliquots at 4°C for more than one week. |
| 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 #20479 available at: https://www.bio-rad-antibodies.com/SDS/HCA297P 20479 |
| Licensed Use | For <i>in vitro</i> research purposes and for commercial applications for the provision of <i>in vitro</i> 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

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 'M429259:240404'

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