

Datasheet: HCA283P

Description:	HUMAN ANTI DENOSUMAB:HRP
Specificity:	DENOSUMAB
Other names:	PROLIA, XGEVA
Format:	HRP
Product Type:	Monoclonal Antibody
Clone:	AbD26781_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 (kappa light chain) selected from the HuCAL phage display library and expressed in a human cell line. Conjugated to horseradish peroxidase (HRP) – liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A
Source	HKB-11
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.01% Thiomersal
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	Denosumab

Specificity	<p>Human Anti-Denosumab Antibody, clone AbD26781_hlgG1 is a non-inhibitory anti-idiotypic antibody that specifically recognizes free human monoclonal antibody drug denosumab, and the drug in complex with its target, RANKL (receptor activator of nuclear factor kappa-B ligand). The antibody does not recognize free RANKL and does not inhibit binding of denosumab to RANKL.</p> <p>A pair of anti-denosumab antibodies can be used to develop a pharmacokinetic (PK) bridging assay. This antibody clone AbD26781_hlgG1 is recommended as the detection antibody, paired with either clone AbD26295_hlgG1 (HCA280) or clone AbD26862_hlgG1 (HCA282) as capture antibody. It can also be used as the detection antibody in an antigen capture format assay. This antibody is not suitable for the development of an anti-drug antibody (ADA) assay.</p> <p>Denosumab (Prolia, Xgeva) is a fully human monoclonal antibody (IgG2/kappa) for the treatment of osteoporosis, treatment-induced bone loss, bone metastases, multiple myeloma, and giant cell tumor of bone. The drug specifically binds to human RANKL a protein that acts as the primary signal to promote bone removal/resorption and prevents RANKL from activating its receptor, RANK, on the surface of osteoclasts and their precursors.</p> <p>View a summary of all anti-denosumab antibodies.</p>
Affinity	<p>The intrinsic affinity of the monovalent form of this antibody is $K_D=19$ nM as measured by real time, label-free molecular interaction analysis on immobilized denosumab, and as $K_D=17$ nM on the RANKL/drug complex.</p>
ELISA	<p>This antibody can be used as a detection antibody in a bridging ELISA together with HCA280 (clone AbD26295_hlgG1) or HCA282 (clone AbD26862_hlgG1) as capture reagents. This antibody can be used in an antigen capture ELISA. Protocol: PK bridging ELISA to measure free drug.</p>
Storage	<p>This product is shipped frozen.</p> <p>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.</p>
Guarantee	<p>12 months from date of despatch</p>
Acknowledgements	<p>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.</p> <p>Prolia and Xgeva are trademarks of Amgen Inc.</p>
Health And Safety Information	<p>Material Safety Datasheet documentation #10094 available at: https://www.bio-rad-antibodies.com/SDS/HCA283P</p> <p>10094</p>
Licensed Use	<p>For <i>in vitro</i> research purposes and for commercial applications for the provision of <i>in vitro</i></p>

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 Useful Reagents

[HISPEC ASSAY DILUENT \(BUF049A\)](#)

[HUMAN ANTI DENOSUMAB \(HCA280\)](#)

[HUMAN ANTI DENOSUMAB \(HCA282\)](#)

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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

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