

Datasheet: HCA283

BATCH NUMBER 161834

Description:	HUMAN ANTI DENOSUMAB
Specificity:	DENOSUMAB
Other names:	PROLIA, XGEVA
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD26781_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 (kappa light chain) selected from the HuCAL® phage display library and expressed in a human cell line - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.01% Thiomersal
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml
Immunogen	Denosumab
Specificity	Human Anti-Denosumab Antibody, clone AbD26781_hIgG1 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.

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.

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.

[View a summary of all anti-denosumab antibodies.](#)

Affinity	The monovalent intrinsic affinity of this antibody was measured as $K_D = 19$ nM by real time, label-free molecular interaction analysis on immobilized denosumab and as $K_D = 17$ nM on the RANKL/drug complex.
ELISA	This antibody can be used as a detection antibody in a bridging ELISA together with HCA280 or HCA282 as capture reagents. This antibody can be used in an antigen capture ELISA. Protocol: PK bridging ELISA to measure free drug.
Storage	<p>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 $2-8^{\circ}\text{C}$ for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
Guarantee	12 months from date of despatch
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 registered trademarks of Amgen Inc.</p>
Health And Safety Information	Material Safety Datasheet documentation #10094 available at: https://www.bio-rad-antibodies.com/SDS/HCA283 10094
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 Useful Reagents

[LYNX RAPID HRP ANTIBODY CONJUGATION KIT \(LNK001P\)](#)

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

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

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

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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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