

Datasheet: HCA280

BATCH NUMBER 165885

Description:	HUMAN ANTI DENOSUMAB
Specificity:	DENOSUMAB
Other names:	PROLIA, XGEVA
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD26295_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
Source	HKB-11
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml
Immunogen	Denosumab

Specificity **Human Anti-Denosumab Antibody, clone AbD26295_hlgG1** is a paratope specific anti-idiotypic antibody that specifically recognizes the free human monoclonal antibody denosumab. The antibody does not recognize free RANKL (receptor activator of nuclear factor kappa-B ligand) or denosumab in complex with human RANKL and can be used to measure free denosumab and biosimilar products.

Clone AbD26295_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.

A pair of anti denosumab 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 AbD26296 ([HCA288](#)) in monovalent Fab format as the capture antibody.

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 intrinsic affinity of the monovalent form of this antibody is $K_D=1.8$ nM as measured by real time, label-free molecular interaction analysis on immobilized Denosumab.

ELISA This product may be used in direct or indirect ELISA and in an ELISA bridging assay as a detection antibody together, when conjugated to HRP, with [HCA288](#) as the capture reagent. It is also suitable as a fully human control or calibrator antibody in an ADA bridging ELISA.

Protocol: [PK bridging ELISA to measure free drug.](#)

Protocol: [ADA bridging ELISA.](#)

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

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Health And Safety Material Safety Datasheet documentation #10040 available at:

Information <https://www.bio-rad-antibodies.com/SDS/HCA280>
10040

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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

[HUMAN ANTI DENOSUMAB \(HCA281\)](#)

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

[HUMAN ANTI DENOSUMAB \(HCA288\)](#)

[HUMAN ANTI DENOSUMAB:HRP \(HCA280P\)](#)

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

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

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