

Datasheet: HCA283

BATCH NUMBER 165767

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
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 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_hIgG1 is recommended as the detection antibody, paired with either clone AbD26295_hIgG1 ([HCA280](#)) or clone AbD26862_hIgG1 ([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 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.

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

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

Acknowledgements

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Health And Safety Information

Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/HCA283>
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

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

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

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

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

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