

Datasheet: HCA288

BATCH NUMBER 154375

Description:	HUMAN ANTI DENOSUMAB
Specificity:	DENOSUMAB
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD26296
Isotype:	HuCAL Fab monovalent
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

A monovalent human recombinant Fab (kappa light chain) selected from the HuCAL® phage display library, expressed in *E. coli*. The antibody is tagged with a DYKDDDDK tag and a HIS-tag (HHHHHH) at the C-terminus of the antibody heavy chain. This antibody is supplied as a liquid.

Preparation

Metal chelate affinity chromatography

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.01% Thiomersal

Approx. Protein Concentrations

Antibody concentration 0.5 mg/ml

Immunogen

Denosumab

Specificity

Human Anti-Denosumab Antibody, clone AbD26296 is a paratope specific,

anti-idiotypic antibody that specifically recognizes the monoclonal antibody drug 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 the levels of free denosumab and biosimilar products in bioanalytical assays.

A pair of anti-denosumab antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug. This antibody, in monovalent Fab format, is recommended as the capture antibody, paired with an anti-denosumab antibody in full immunoglobulin format, clone AbD26295_hIgG1 ([HCA280](#)) as the detection 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 monovalent intrinsic affinity of AbD26296 was measured as $K_D = 7.1 \text{ nM}$ by real time, label free molecular interaction analysis on immobilized denosumab
ELISA	Clone AbD26296 can be used in a direct or indirect ELISA system or as capture antibody for denosumab in a bridging ELISA together with HCA280P (AbD26295_hIgG1) as the detection reagent. Protocol: PK bridging ELISA to measure total drug
Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	12 months from date of despatch
Acknowledgements	Sold under license of U.S. Patents 6753136, 7785859 and 8273688 and corresponding patents. This antibody was developed by Bio-Rad, Zeppelinstr. 4, 82178 Puchheim, Germany. Prolia and Xgeva are registered trademarks of Amgen Inc. His-tag is a registered trademark of EMD Biosciences.
Health And Safety Information	Material Safety Datasheet documentation #10094 available at: https://www.bio-rad-antibodies.com/SDS/HCA28810094
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

[MOUSE ANTI PENTA HISTIDINE TAG:HRP \(MCA5995P\)](#)

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

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

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

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

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

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

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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

'M371728:200612'

Printed on 01 Mar 2024

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