

## Datasheet: HCA288

**BATCH NUMBER 170844**

<b>Description:</b>	HUMAN ANTI DENOSUMAB
<b>Specificity:</b>	DENOSUMAB
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD26296
<b>Isotype:</b>	HuCAL Fab monovalent
<b>Quantity:</b>	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](http://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

### Source

*E. coli*

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

0.09% Sodium Azide (NaN<sub>3</sub>)

### Approx. Protein Concentrations

Antibody concentration 0.5 mg/ml

### Immunogen

Denosumab

<b>Specificity</b>	<p><b>Human Anti-Denosumab Antibody, clone AbD26296</b> 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.</p> <p>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 (<a href="#">HCA280</a>) as the detection antibody.</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><a href="#">View a summary of all anti-denosumab antibodies.</a></p>
<b>Affinity</b>	The intrinsic affinity of Human anti Denosumab antibody, clone AbD26296 is $K_D = 7.1 \text{ nM}$ as measured by real time, label free molecular interaction analysis on immobilized Denosumab.
<b>ELISA</b>	<p>Human anti Denosumab antibody, clone AbD26296 can be used in a direct or indirect ELISA system or as capture antibody for Denosumab in a bridging ELISA together with <a href="#">HCA280P</a> (AbD26295_hIgG1) as the detection reagent.</p> <p>Protocol: <a href="#">PK bridging ELISA to measure total drug.</a></p>
<b>Storage</b>	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at <math>-20^\circ\text{C}</math> on receipt. When thawed, aliquot the sample as needed. Keep aliquots at <math>2-8^\circ\text{C}</math> for short term use (up to 4 weeks) and store the remaining aliquots at <math>-20^\circ\text{C}</math>.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	<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 <a href="http://bio-rad.com/en-us/trademarks">bio-rad.com/en-us/trademarks</a> for details.</p> <p>Prolia and Xgeva are trademarks of Amgen Inc.</p> <p>His-tag is a trademark of EMD Biosciences.</p>
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/HCA288">https://www.bio-rad-antibodies.com/SDS/HCA288</a></p>
<b>Licensed Use</b>	For <i>in vitro</i> research purposes and for commercial applications for the provision of <i>in vitro</i>

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.

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<b>Regulatory</b>	For research purposes only
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<b>Technical Advice</b>	Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the <a href="#">HuCAL Antibodies Technical Manual</a> .
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## 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 \(HCA280P\)](#)

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)

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