

Datasheet: HCA423

Description:	HUMAN ANTI ROMOSOZUMAB
Specificity:	ROMOSOZUMAB
Other names:	Evenity
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD60141ia
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 (lambda light chain) selected from the HuCAL phage display library and expressed in a human cell line. This product is supplied as a 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	Antibody concentration 0.5 mg/ml
Immunogen	Romosozumab

Specificity

Human Anti-Romosozumab Antibody, clone AbD60141ia is a paratope specific, inhibitory, anti-idiotypic antibody (Type 1) that specifically recognizes the free human monoclonal antibody drug romosozumab, and its biosimilar products. It does not recognize the drug target, sclerostin, nor romosozumab in complex with sclerostin.

HCA423 is a fully human recombinant monoclonal antibody with IgG1 isotype and is suitable as a surrogate positive control or calibrator in an anti-drug antibody (ADA) assay. This antibody has a monovalent intrinsic affinity of 0.7nM and is one of the two antibodies offered for ADA assays. Antibody [HCA424](#) has an affinity of 2nM.

Romosozumab (trade name Evenity) is a humanized monoclonal antibody of the IgG2/kappa isotype that binds to sclerostin and prevents inhibition of the Wnt signaling pathway, thereby promoting osteogenesis and, to a lesser extent, reducing bone resorption. Romosozumab's inhibition of sclerostin also inhibits the increase in RANKL-dependent increases in osteoclast activity and bone resorption. Romosozumab is indicated for the treatment of osteoporosis in postmenopausal women at high risk for fracture.

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

Affinity

The intrinsic affinity of the monovalent form of Human Anti-Romosozumab Antibody, clone AbD60141ia is $K_D = 0.7 \text{ nM}$ as measured by real time, label free molecular interaction analysis on immobilized romosozumab.

ELISA

Clone AbD60141ia can be used in indirect ELISA to detect romosozumab. It can also be used as a surrogate positive control or a calibrator in an anti-drug antibody (ADA) assay, together with [HCA424](#).

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 $2-8^\circ\text{C}$ 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

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.

Evenity is a trademark of Amgen and UCB.

Health And Safety Information

Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/HCA423>

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

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

[LYNX RAPID HRP ANTIBODY CONJUGATION KIT \(LNK002P\)](#)

[HUMAN ANTI ROMOSOZUMAB \(TZA060\)](#)

[HUMAN ANTI ROMOSOZUMAB \(TZA061\)](#)

[HUMAN ANTI ROMOSOZUMAB:HRP \(TZA061P\)](#)

[HUMAN ANTI ROMOSOZUMAB \(DRUG/TARGET COMPLEX\) \(TZA099\)](#)

[HUMAN ANTI ROMOSOZUMAB \(DRUG/TARGET COMPLEX\):HRP \(TZA099P\)](#)

Product inquiries: 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

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