

Datasheet: TZA061

Description:	HUMAN ANTI ROMOSOZUMAB
Specificity:	ROMOSOZUMAB
Other names:	Evenity
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD60146
Isotype:	Fab antibody
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 a proprietary *E. coli* strain. The antibody is tagged with a DYKDDDDK tag, a SpyTag version 2 (VPTIVMVDAYKRYK) and a His6-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

0.0095% MIT

Approx. Protein Concentrations

Antibody concentration 0.5 mg/ml

Specificity

Human Anti-Romosozumab Antibody, clone AbD60146 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. This antibody can be used to measure free romosozumab levels in serum from patients.

Clone AbD60146 is available as a monovalent Fab antibody incorporating a SpyTag at the C-terminus end of the antibody heavy chain for conversion by the end user into alternative formats using any of the [SpyCatchers](#) available in our catalog under product code [TZA061](#). It is also available as a bivalent Fab antibody already conjugated to HRP via coupling to the HRP conjugated BiSpyCatcher2 ([TZC002P](#)) for use in direct ELISA under product code [TZA061P](#).

A pair of anti-romosozumab antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug; clone AbD60146 is recommended as a detection antibody, paired with Human Anti-Romosozumab Antibody, clone AbD60141ad ([TZA060](#)) as the capture reagent.

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 monovalent intrinsic affinity of AbD60146ad was measured as $K_D = 0.4$ nM by real time, label free molecular interaction analysis on immobilized romosozumab.

ELISA

Clone AbD60146ad can be used in indirect ELISA to detect romosozumab. It can also be used as a detection antibody to develop a pharmacokinetic (PK) bridging ELISA for romosozumab together with [TZA060](#) as the capture reagent. Note that both TZA060 (capture) and TZA061 (detection) contain the same peptide tags. Therefore, using anti-tag antibodies for detecting TZA061 is not possible.

Protocol: [PK 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
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. His-tag is a registered trademark of EMD Biosciences. Evenity is a trademark of Amgen and UCB.
Health And Safety Information	Material Safety Datasheet documentation #20479 available at: https://www.bio-rad-antibodies.com/SDS/TZA061
Licensed Use	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.
Regulatory	For research purposes only
Technical Advice	Recommended protocols for coupling a Fab antibody with a SpyTag to a SpyCatcher can be found at SpyTag and SpyCatcher Products , 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 \(BUF049A\)](#)

[SpyTag3 PEPTIDE \(BLP086\)](#)

[BiSpyCatcher2:HRP \(TZC002P\)](#)

[HUMAN ANTI ROMOSOZUMAB \(HCA423\)](#)

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

[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
'M445578:250904'

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