

Datasheet: TZA099P

**BATCH NUMBER 171360**

<b>Description:</b>	HUMAN ANTI ROMOSOZUMAB (DRUG/TARGET COMPLEX):HRP
<b>Specificity:</b>	ROMOSOZUMAB DRUG/TARGET COMPLEX
<b>Other names:</b>	Evenity
<b>Format:</b>	HRP
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD59921
<b>Isotype:</b>	Fab antibody
<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 bivalent human recombinant Fab (kappa light chain) generated by coupling of the monovalent SpyTagged Fab [TZA099](#) with a HRP conjugated BiSpyCatcher version 2 ([TZC002P](#)). The coupled antibody has two DYKDDDDK tags and three His6-tags. It contains SpyTag3 peptide ([BLP086](#)) in 5-fold molar excess to block any unreacted Catcher sites. 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

Antibody concentration 0.5 mg/ml

## Concentrations

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**Immunogen** Romosozumab/Sclerostin complex

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**Specificity** **Human Anti-Romosozumab (Drug/Target Complex) Antibody, clone AbD59921** specifically recognizes the antibody drug romosozumab when in complex with its target, . It does not recognize free romosozumab nor unbound sclerostin.

The monovalent Fab format of this antibody, clone AbD59921ad (**TZA099**) is tagged with a SpyTag2 at the C-terminus of the Fab heavy chain, enabling the user to couple it to a [SpyCatcher reagent](#) for conversion to alternative formats in less than one hour.

This antibody is also available as a bivalent Fab antibody pre-coupled to the HRP-conjugated BiSpyCatcher2 ([TZC002P](#)) under product code **TZA099P** for direct detection of the Romosozumab/Sclerostin complex in bioanalysis assays.

Clone AbD59921 can be used in pharmacokinetic (PK) antigen capture format assays to measure romosozumab that has been captured via immobilized sclerostin. It is ideal for bioanalytical assays to measure the level of drug or biosimilar in complex with the sclerostin target.

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.

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**Affinity** The monovalent intrinsic affinity of AbD59921pap was measured as  $K_D = 12$  nM by real time, label free molecular interaction analysis on immobilized human Sclerostin/romosozumab complex.

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**ELISA** Clone AbD59921pap may be used in an direct ELISA to detect the human Sclerostin/romosozumab complex or as a detection reagent for romosozumab captured via immobilised Sclerostin.

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**Storage** This product is shipped frozen.  
When ready to use, thaw and aliquot the sample as needed. Store aliquots at -70°C, if available, otherwise store at -20°C. It is not recommended to keep aliquots at 4°C for more than one week.

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**Guarantee** 12 months from date of despatch

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**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](http://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.

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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #20479 available at: <a href="https://www.bio-rad-antibodies.com/SDS/TZA099P">https://www.bio-rad-antibodies.com/SDS/TZA099P</a>
<b>Licensed Use</b>	For <i>in vitro</i> research purposes only, unless otherwise specified in writing by Bio-Rad.
<b>Regulatory</b>	For research purposes only
<b>Technical Advice</b>	Recommended protocols for coupling a Fab antibody with a SpyTag to a SpyCatcher can be found at <a href="#">SpyTag and SpyCatcher Products</a> , 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

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

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

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

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

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

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

**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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**Printed on 24 Sep 2025**