

Datasheet: TZA0111

BATCH NUMBER 171452

Description:	HUMAN ANTI BUROSUMAB (DRUG/TARGET COMPLEX)
Specificity:	BUROSUMAB DRUG/TARGET COMPLEX
Other names:	Crysvita
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD64797
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 (lambda 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

Immunogen	hFGF-23-His/Burosumab complex
Specificity	<p>Human Anti-Burosumab (Drug/Target Complex) Antibody, clone AbD64797 specifically recognizes the antibody drug burosumab when in complex with its target, hFGF-23-His. It does not recognize free burosumab nor unbound hFGF-23-His.</p> <p>The monovalent Fab format of this antibody, clone AbD64797ad (TZA0111) 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 TZA0111P for direct detection of the Burosumab/ hFGF-23-His complex in bioanalysis assays.</p> <p>Clone AbD64797 can be used in pharmacokinetic (PK) antigen capture format assays to measure burosumab that has been captured via immobilized hFGF-23-His. It is ideal for bioanalytical assays to measure the level of drug or biosimilar in complex with the hFGF-23-His target.</p> <p>Burosumab (trade name Crysvita) is a humanized monoclonal antibody of the IgG1/kappa isotype that binds to fibroblast growth factor-23 (FGF23), blocking the interaction with the FGFR1. Burosumab therefore inhibits FGF23 signaling, thereby increasing tubular phosphate reabsorption and decreasing renal phosphate excretion, as well as increasing serum levels of 1,25(OH)2D and increasing GI absorption of phosphate. As a result, bone mineralization is improved and the risk of bone disease is decreased. Burosumab is indicated for the treatment of X-linked hypophosphatemia and tumor-induced osteomalacia.</p>
Affinity	The monovalent intrinsic affinity of AbD64797ad was measured as $K_D = 1$ nM by real time, label free molecular interaction analysis on immobilized human hFGF-23-His/Burosumab complex.
ELISA	Clone AbD64797ad may be used in an indirect ELISA to detect the human hFGF-23-His/Burosumab complex or to detect burosumab bound to immobilized human hFGF-23-His.
Storage	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
Guarantee	12 months from date of despatch
Acknowledgements	<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 bio-rad.com/en-us/trademarks for details.</p> <p>His-tag is a registered trademark of EMD Biosciences.</p>

Crysvita is a trademark of Kyowa Hakko Kirin and Ultragenyx Pharmaceutical.

Health And Safety Information	Material Safety Datasheet documentation #20479 available at: https://www.bio-rad-antibodies.com/SDS/TZA0111
Licensed Use	For <i>in vitro</i> research purposes only, unless otherwise specified in writing by 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 \(BUF049A\)](#)

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

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

[HUMAN ANTI BUROSUMAB \(TZA0109\)](#)

[HUMAN ANTI BUROSUMAB \(TZA0110\)](#)

[HUMAN ANTI BUROSUMAB \(DRUG/TARGET COMPLEX\):HRP \(TZA0111P\)](#)

[HUMAN ANTI BUROSUMAB:HRP \(TZA0110P\)](#)

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
'M444950:250814'

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