

## Datasheet: TZA0111P

<b>Description:</b>	HUMAN ANTI BUROSUMAB (DRUG/TARGET COMPLEX):HRP
<b>Specificity:</b>	BUROSUMAB DRUG/TARGET COMPLEX
<b>Other names:</b>	Crysvita
<b>Format:</b>	HRP
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD64797
<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 (lambda light chain) generated by coupling of the monovalent SpyTagged Fab [TZA0111](#) 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 Concentrations

Antibody concentration 0.5 mg/ml

<b>Immunogen</b>	hFGF-23-His/Burosumab complex
<b>Specificity</b>	<p><b>Human Anti-Burosumab (Drug/Target Complex) Antibody, clone AbD64797</b> 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 <a href="#">SpyCatcher reagent</a> 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 (<a href="#">TZC002P</a>) 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 Crysvida) 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> <p><a href="#">View a summary of all anti-burosumab antibodies</a></p>
<b>Affinity</b>	The monovalent intrinsic affinity of AbD64797pap was measured as $K_D = 1$ nM by real time, label free molecular interaction analysis on immobilized human hFGF-23-His/burosumab complex.
<b>ELISA</b>	<p>Clone AbD64797pap may be used in a direct ELISA to detect the human hFGF-23-His/Burosumab complex or to detect burosumab bound to immobilized human hFGF-23-His.</p> <p>Protocol: <a href="#">PK antigen capture ELISA</a></p>
<b>Storage</b>	<p>This product is shipped frozen.</p> <p>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.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	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.  
Crysvita is a trademark of Kyowa Hakko Kirin and Ultragenyx Pharmaceutical.

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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/TZA0111P">https://www.bio-rad-antibodies.com/SDS/TZA0111P</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 BUROSUMAB \(TZA0109\)](#)  
[HUMAN ANTI BUROSUMAB \(TZA0110\)](#)  
[HUMAN ANTI BUROSUMAB:HRP \(TZA0110P\)](#)  
[HUMAN ANTI BUROSUMAB \(DRUG/TARGET COMPLEX\) \(TZA0111\)](#)

**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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