

Datasheet: TZA0110P

Description:	HUMAN ANTI BUROSUMAB:HRP
Specificity:	BUROSUMAB
Other names:	Crysvita
Format:	HRP
Product Type:	Monoclonal Antibody
Clone:	AbD63865
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 bivalent human recombinant Fab (kappa light chain) generated by coupling of the monovalent SpyTagged Fab [TZA0110](#) 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

Immunogen

Burosumab

Specificity

Human Anti- Burosumab Antibody, clone AbD63865 is a paratope specific, inhibitory anti-idiotypic antibody (Type 1) that specifically recognizes the humanized monoclonal antibody drug burosumab. It does not recognize the drug target hFGF-23-His, nor burosumab in complex with hFGF-23-His. This antibody can be used to measure free burosumab levels in serum from patients.

TZA0110 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 [TZA0110](#). 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 [TZA0110P](#).

A pair of anti-burosumab antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug; clone AbD63865ad is recommended as a detection antibody, paired with Human Anti-Burosumab Antibody, clone AbD63869ad ([TZA0109](#)) as the capture antibody.

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.

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

Affinity

The monovalent intrinsic affinity of AbD63865pap was measured as $K_D = 0.1$ nM by real time, label free molecular interaction analysis on immobilized burosumab.

ELISA

Clone AbD63865pap may be used as the detection antibody together with AbD63869ad ([TZA0109](#)) as the capture antibody for burosumab in a PK bridging ELISA.

Protocol: [PK bridging ELISA](#)

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

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.
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/TZA0110P
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 \(BUF049A\)](#)

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

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

[HUMAN ANTI BUROSUMAB \(DRUG/TARGET COMPLEX\) \(TZA0111\)](#)

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

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
'M445588:250904'

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