

Datasheet: TZA053

BATCH NUMBER 168737

Description:	HUMAN ANTI RAMUCIRUMAB (DRUG/TARGET COMPLEX)
Specificity:	RAMUCIRUMAB DRUG/TARGET COMPLEX
Other names:	Cyramza
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD53034
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	Ramucirumab/VEGFR2 complex
Specificity	<p>Human Anti-Ramucirumab (Drug/Target Complex) Antibody, clone AbD53034 specifically recognizes the antibody drug ramucirumab when in complex with its target, the human vascular endothelial growth factor receptor 2 (VEGFR2). It does not recognize free ramucirumab nor unbound VEGFR2.</p> <p>The monovalent Fab format of this antibody, clone AbD53034ad (TZA053) 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 TZA053P for direct detection of the Ramucirumab/VEGFR2 complex in bioanalysis assays.</p> <p>Clone AbD53034 can be used in pharmacokinetic (PK) antigen capture format assays to measure ramucirumab that has been captured via immobilized VEGFR2. It is ideal for bioanalytical assays to measure the level of drug or biosimilar in complex with the VEGFR2 target.</p> <p>Ramucirumab (trade name Cyramza) is a humanized monoclonal antibody of the IgG1/kappa isotype that binds to the extracellular VEGF-binding domain of VEGFR2 to prevent VEGF ligands to bind to VEGFR2. Ramucirumab therefore blocks the activation of VEGFR2 and the downstream angiogenesis pathways involved in tumor development and progression. Ramucirumab is indicated, alone or in combination with another drug for the treatment of advanced gastric adenocarcinoma and non-small cell lung cancer.</p>
Affinity	The monovalent intrinsic affinity of AbD53034ad was measured as $K_D = 1$ nM by real time, label free molecular interaction analysis on immobilized human VEGFR2-His/ramucirumab complex.
ELISA	Clone AbD53034ad may be used in an indirect ELISA to detect the human VEGFR2/ramucirumab complex or to detect ramucirumab bound to immobilized human VEGFR2.
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> <p>Cyramza is a trademark of Eli Lilly.</p>

Health And Safety Information	Material Safety Datasheet documentation #20479 available at: https://www.bio-rad-antibodies.com/SDS/TZA053 20479
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

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
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