

Datasheet: TZA0152P

Description:	HUMAN ANTI GALCANEZUMAB:HRP
Specificity:	GALCANEZUMAB
Other names:	Emgality
Format:	HRP
Product Type:	Monoclonal Antibody
Clone:	AbD64632
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 [TZA0127](#) 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	Galcanezumab
Specificity	<p>Human Anti-Galcanezumab Antibody, clone AbD64632 is a paratope specific, inhibitory anti-idiotypic antibody (Type 1) that specifically recognizes the humanized monoclonal antibody drug galcanezumab. It does not recognize the drug target calcitonin gene-related peptide (CGRP), nor galcanezumab in complex with CGRP. This antibody can be used to measure free galcanezumab levels in serum from patients.</p> <p>TZA0152 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 TZA0152. 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 TZA0152P.</p> <p>A pair of anti-galcanezumab antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug; clone AbD64632 is recommended as a detection antibody, paired with Human Anti-Galcanezumab Antibody, clone AbD64640ad (TZA0151) as the capture antibody.</p> <p>Galcanezumab (trade name Emgality) is a fully humanized recombinant monoclonal antibody of isotype IgG4 kappa. It binds to calcitonin gene-related peptide (CGRP) making it unable to bind to CGRP receptors. Galcanezumab is indicated the preventative treatment of migraines and treatment of episodic cluster headache.</p>
Affinity	The monovalent intrinsic affinity of AbD64632pap was measured as $K_D = 0.3$ nM by real time, label free molecular interaction analysis on immobilized galcanezumab.
ELISA	Clone AbD64632pap may be used as the detection antibody together with AbD64640ad (TZA0151) as the capture antibody for galcanezumab in a PK bridging ELISA.
Storage	<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>
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>Emgality is a trademark of Eli Lilly and company.</p>
Health And Safety Information	Material Safety Datasheet documentation #20479 available at: https://www.bio-rad-antibodies.com/SDS/TZA0152P
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 GALCANEZUMAB \(TZA0151\)](#)

[HUMAN ANTI GALCANEZUMAB \(TZA0152\)](#)

[HUMAN ANTI GALCANEZUMAB \(DRUG/TARGET COMPLEX\) \(TZA0153\)](#)

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

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