

Datasheet: TZA0152

Description:	HUMAN ANTI GALCANEZUMAB
Specificity:	GALCANEZUMAB
Other names:	Emgality
Format:	Purified
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 monovalent human recombinant Fab (kappa 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

Galcanezumab

Specificity

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.

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](#).

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.

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.

Affinity

The monovalent intrinsic affinity of AbD64632ad was measured as $K_D = 0.3$ nM by real time, label free molecular interaction analysis on immobilized galcanezumab.

ELISA

Clone AbD64632ad can be used in indirect ELISA to detect galcanezumab. This antibody can be coupled with SypCatcher adaptors other than the bicatcher:HRP adaptor used in product TZA0152P (AbD64632pap) and can be used as a detection antibody to develop a pharmacokinetic (PK) bridging ELISA for galcanezumab together with [TZA0151](#) as the capture reagent. Note that both TZA0151 (capture) and TZA0152 (detection) contain the same peptide tags. Therefore, using anti-tag antibodies for detecting TZA0152 is not possible.

Storage

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.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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.
Emgality is a trademark of Eli Lilly and company.

Health And Safety Information	Material Safety Datasheet documentation #20479 available at: https://www.bio-rad-antibodies.com/SDS/TZA0152
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:HRP \(TZA0152P\)](#)

[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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Printed on 19 May 2026