

Datasheet: TZA0151

Description:	HUMAN ANTI GALCANEZUMAB
Specificity:	GALCANEZUMAB
Other names:	Emgality
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD64640ad
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	Galcanezumab
Specificity	<p>Human Anti-Galcanezumab Antibody, clone AbD64640ad 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>A pair of anti-galcanezumab antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug; clone AbD64640ad is recommended as a capture antibody, paired with Human Anti-Galcanezumab Antibody, clone AbD64632pap (TZA0152P) as the detection antibody.</p> <p>TZA0151 is 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.</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 AbD64640ad was measured as $K_D = < 0.1$ nM by real time, label free molecular interaction analysis on immobilized galcanezumab.
ELISA	Clone AbD64640ad can be used in indirect ELISA to detect galcanezumab. It can also be used as a capture antibody to develop a pharmacokinetic (PK) bridging ELISA for galcanezumab together with TZA0152 or TZA0152P as the detection 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	<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>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/TZA0151

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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 \(BUF049A\)](#)

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
'M450731:260519'

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