

Datasheet: TZA0123

BATCH NUMBER 172593

Description:	HUMAN ANTI DULAGLUTIDE
Specificity:	Dulaglutide
Other names:	Trulicity
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD64818
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 Bio-Rad's human antibody phage display libraries 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

Antibody concentration 0.5 mg/ml

Concentrations

Immunogen Dulaglutide

Specificity **Human Anti-Dulaglutide Antibody, clone AbD64818** is specific for human GLP-1 and its peptidase-IV-protected analog present in the human IgG4-Fc fusion protein dulaglutide.

Clone AbD64818 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 [TZA0123](#). 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 [TZA0123P](#).

A pair of anti-dulaglutide antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug; clone AbD64818ad is recommended as a capture antibody, paired with Human Anti-Dulaglutide Antibody, clone AbD64818pap ([TZA0123P](#)) as the detection reagent.

Dulaglutide (trade name Trulicity) is a fusion protein, combining a modified GLP-1 analogue with a human IgG4-Fc heavy chain. It binds to GLP-1 and activates the GLP-1 receptor found in the pancreatic beta cells increasing intracellular cyclic AMP in beta cells, leading to insulin release and subsequent reduction of blood glucose concentrations. Dulaglutide is indicated for the management of type 2 diabetes and reduce major adverse cardiovascular events.

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

Affinity The monovalent intrinsic affinity of AbD64818ad was measured as $K_D = 2$ nM by real time, label free molecular interaction analysis on immobilized dulaglutide.

ELISA Clone AbD64818ad can be used as the capture antibody for dulaglutide in a bridging ELISA, or as a detection antibody in an indirect ELISA.

Protocol: [PK bridging ELISA](#)

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.

Trulicity is a trademark of Eli Lilly.

Health And Safety Information	Material Safety Datasheet documentation #20479 available at: https://www.bio-rad-antibodies.com/SDS/TZA0123
Licensed Use	For in vitro research purposes and for commercial applications for the provision of in vitro 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 \(BUF049A\)](#)

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
'M450717:260514'

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