

Datasheet: TZA0136

Description:	HUMAN ANTI YTE MUTATIONS
Specificity:	YTE MUTATIONS
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD64789
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

YTE mutations (AbD18705iu, hIgG1 carrying the YTE mutations)

Specificity	<p>Human Anti-YTE mutation Antibody, clone AbD64789 is an antibody that specifically recognizes the YTE mutation (M252Y/S254T/T256E) in human IgG1 antibodies. This antibody can be used to measure antibody drug concentrations in serum from patients treated with antibody drugs carrying this YTE mutation.</p> <p>For PK assays, clone AbD64789 is recommended as a detection antibody, paired with Human anti-YTE mutation antibody, clone AbD64785ad (TZA0135) as the capture antibody.</p> <p>Clone AbD64789 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 TZA0136. 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 TZA0136P.</p> <p>The YTE-mutations (M252Y/S254T/T256E) were initially introduced at the CH2-CH3 interface of the humanized IgG1 drug antibody MEDI-524 (anti-respiratory syncytial virus, RSV). It was shown that these mutations lead to a prolonged half time in serum due to a higher affinity to the neonatal Fc receptor (FcRn) and is therefore an interesting format for many antibody drugs.</p> <p>View a summary of all anti-yte mutation antibodies</p>
Affinity	<p>The monovalent intrinsic affinity of AbD64789ad was measured as $K_D = 3$ nM by real time, label free molecular interaction analysis on immobilized AbD18705iu.</p>
ELISA	<p>Clone AbD64789ad can be used in indirect ELISA for AbD18705iu and other antibodies carrying the YTE mutations. It can also be used as a detection antibody to develop a pharmacokinetic (PK) bridging ELISA together with TZA0135 as the capture reagent. Note: This antibody has only low affinity towards YTE in the presence of additional Fc mutations. For antibodies carrying additional mutations we recommend to use our alternative PK pair of TZA0137 and TZA0137P.</p> <p>Protocol: PK bridging ELISA</p>
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	<p>12 months from date of despatch</p>
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</p>

bio-rad.com/en-us/trademarks for details.

Health And Safety Information	Material Safety Datasheet documentation #20479 available at: https://www.bio-rad-antibodies.com/SDS/TZA0136
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 YTE MUTATIONS \(TZA0135\)](#)

[HUMAN ANTI YTE MUTATIONS \(TZA0136P\)](#)

[HUMAN ANTI YTE MUTATIONS \(TZA0137\)](#)

[HUMAN ANTI YTE MUTATIONS \(TZA0137P\)](#)

[RECOMBINANT HUMAN IgG1 YTE KAPPA ALLOTYPE G1m3 \(HCA413\)](#)

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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