

Datasheet: TZA0135

**BATCH NUMBER 172596**

<b>Description:</b>	HUMAN ANTI YTE MUTATIONS
<b>Specificity:</b>	YTE MUTATIONS
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD64785ad
<b>Isotype:</b>	Fab antibody
<b>Quantity:</b>	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](http://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 Concentrations

Antibody concentration 0.5 mg/ml

<b>Immunogen</b>	YTE mutations (AbD18705iu, hIgG1 carrying the YTE mutations)
<b>Specificity</b>	<p><b>Human Anti-YTE mutation Antibody, clone AbD64785ad</b> 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 AbD64785ad is recommended as a capture antibody, paired with Human anti-YTE mutation antibody, clone AbD64789 (<a href="#">TZA0136</a>) or (<a href="#">TZA0136P</a>) as the detection antibody. It also can be paired with anti-idiotypic detection antibodies of the drug to be measured.</p> <p>TZA0135 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 <a href="#">SpyCatchers</a> available in our catalog.</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><a href="#">View a summary of all anti-yte mutation antibodies</a></p>
<b>Affinity</b>	The monovalent intrinsic affinity of AbD64785ad was measured as $K_D = 0.1$ nM by real time, label free molecular interaction analysis on immobilized AbD18705iu.
<b>ELISA</b>	<p>Clone AbD64785ad can be used in indirect ELISA for AbD18705iu and other antibodies carrying the YTE mutations. It can also be used as a capture antibody to develop a pharmacokinetic (PK) bridging ELISA together with <a href="#">TZA0136</a> or <a href="#">TZA0136P</a> as the detection 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 <a href="#">TZA0137</a> and <a href="#">TZA0137P</a>.</p> <p>Protocol: <a href="#">PK bridging ELISA</a></p>
<b>Storage</b>	<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>
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	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 <a href="http://bio-rad.com/en-us/trademarks">bio-rad.com/en-us/trademarks</a> for details.

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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #20479 available at: <a href="https://www.bio-rad-antibodies.com/SDS/TZA0135">https://www.bio-rad-antibodies.com/SDS/TZA0135</a>
<b>Licensed Use</b>	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.
<b>Regulatory</b>	For research purposes only
<b>Technical Advice</b>	Recommended protocols for coupling a Fab antibody with a SpyTag to a SpyCatcher can be found at <a href="#">SpyTag and SpyCatcher Products</a> , and further information about HuCAL recombinant antibody technology can be found in the <a href="#">HuCAL Antibodies Technical Manual</a>

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## Related Products

### Recommended Useful Reagents

[HISPEC ASSAY DILUENT \(BUF049A\)](#)

[HUMAN ANTI YTE MUTATIONS \(TZA0136\)](#)

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

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

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

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

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://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](http://bio-rad-antibodies.com/datasheets)

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