

Datasheet: TZA0148

BATCH NUMBER 172489

Description:	HUMAN ANTI NIRSEVIMAB
Specificity:	NIRSEVIMAB
Other names:	Beyfortus
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD64624
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

Antibody concentration 0.5 mg/ml

Concentrations

Immunogen Nirsevimab

Specificity **Human Anti-Nirsevimab Antibody, clone AbD64624** is a paratope specific, inhibitory, anti-idiotypic antibody (Type 1) that specifically recognizes the free human monoclonal antibody drug nirsevimab, and its biosimilar products. It does not recognize the free Fusion glycoprotein F0 of RSV, nor nirsevimab in complex with Fusion glycoprotein F0 of RSV. This antibody can be used to measure free nirsevimab levels in serum from patients.

Clone AbD64624 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 [TZA0148](#). 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 [TZA0148P](#).

A pair of anti-nirsevimab antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug; clone AbD64624 is recommended as a detection antibody, paired with Human Anti-Nirsevimab Antibody, clone AbD64623ad ([TZA0147](#)) as the capture reagent.

Nirsevimab (trade name Beyfortus) is a humanized monoclonal antibody of the IgG1/kappa isotype that targets the prefusion conformation of the RSV F protein, a glycoprotein involved in the membrane fusion step of the viral entry process and neutralises several RSV A and B strains. Nirsevimab is indicated to treat respiratory syncytial virus (RSV) lower respiratory tract disease in neonates and infants.

Affinity The monovalent intrinsic affinity of AbD64623ad was measured as $K_D = 0.1$ nM by real time, label free molecular interaction analysis on immobilized nirsevimab.

ELISA Clone AbD64624ad can be used in indirect ELISA to detect nirsevimab. It can also be used as a detection antibody to develop a pharmacokinetic (PK) bridging ELISA for nirsevimab together with [TZA0147](#) as the capture reagent.

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.

Beyfortus is a trademark of Sanofi and AstraZeneca.

Health And Safety Information	Material Safety Datasheet documentation #20479 available at: https://www.bio-rad-antibodies.com/SDS/TZA0148
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 NIRSEVIMAB \(TZA0147\)](#)
[HUMAN ANTI NIRSEVIMAB:HRP \(TZA0148P\)](#)

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
'M449472:260126'

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