

Datasheet: HCA261

Description:	HUMAN ANTI PALIVIZUMAB
Specificity:	PALIVIZUMAB
Other names:	SYNAGIS®
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD23967
Isotype:	HuCAL Fab monovalent
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 *E. coli*. The antibody is tagged with a DYKDDDDK tag and a HIS-tag (HHHHHH) at the C-terminus of the antibody heavy chain. This antibody is supplied as a liquid.

Preparation

Metal chelate affinity chromatography

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.01% Thiomersal

Approx. Protein Concentrations

Antibody concentration 0.5 mg/ml

Immunogen

Palivizumab

Specificity **Human anti Palivizumab, clone AbD23967**, is a paratope specific, high affinity, anti-idiotypic antibody that specifically recognizes the monoclonal antibody drug palivizumab and inhibits it binding to its target. The antibody can be used to measure the levels of palivizumab and biosimilar products in bioanalytical assays.

Our anti palivizumab antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug. This antibody, in monovalent Fab format, is recommended as the capture antibody, paired with the antibody in full immunoglobulin (Ig) format, clone AbD23967_hIgG1 ([HCA262](#)), as the detection antibody. The antibody in Ig format can also be used to develop and calibrate immune response assays to measure the anti-drug antibody (ADA) response in patient sera.

Palivizumab (Synagis®) is a humanized mouse monoclonal antibody (IgG1/kappa) specific to an epitope of the F protein of respiratory syncytial virus (RSV). It binds the antigenic site A, a highly conserved region on the RSV F protein between amino acids 258 and 275. RSV is known to cause infections of the lower respiratory tract in a clear seasonal pattern during the winter months. Administration of the drug is recommended for premature infants (under 35 weeks gestation), infants with certain congenital heart defects (CHD) or bronchopulmonary dysplasia (BPD) throughout the duration of the RSV season. It is approved by the FDA and EMA as a treatment for respiratory tract infection caused by RSV.

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

Affinity	The monovalent intrinsic affinity of this antibody was measured as $K_D = 1.5$ nM by real time, label free molecular interaction analysis on immobilized palivizumab.
ELISA	This product may be used in direct or indirect ELISA and in a PK bridging ELISA as a capture antibody together with the same antibody or HCA262P as the detection reagent. Protocol: PK bridging ELISA to measure free drug
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>
Health And Safety Information	Material Safety Datasheet documentation #10094 available at: 10094: https://www.bio-rad-antibodies.com/uploads/MSDS/10094.pdf

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 and further information about HuCAL recombinant antibody technology can be found in the [HuCAL Antibodies Technical Manual](#)

Related Products

Recommended Secondary Antibodies

Rat Anti Synthetic Peptide DYKDDDDK TAG (MCA4764...) [HRP](#)

Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA5995...) [HRP](#)

Recommended Useful Reagents

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

[HUMAN ANTI PALIVIZUMAB \(HCA262\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M391765:211015'

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