Datasheet: TZA0148P

Description:	HUMAN ANTI NIRSEVIMAB:HRP
Specificity:	NIRSEVIMAB
Other names:	Beyfortus
Format:	HRP
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 bivalent human recombinant Fab (lambda light chain) generated by coupling of the monovalent SpyTagged Fab TZA0148 with a HRP conjugated BiSpyCatcher version 2 (TZC002P). The coupled antibody has two DYKDDDDK tags and three His6-tags. It contains SpyTag3 peptide (BLP086) in 5-fold molar excess to block any unreacted Catcher sites. 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	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 AbD64624pap was measured as K_D = 0.3 nM by real time, label free molecular interaction analysis on immobilized nirsevimab.
ELISA	Clone AbD64624pap may be used as the detection antibody together with AbD64623ad (TZA0147) as the capture antibody for nirsevimab in a PK bridging ELISA.
Storage	This product is shipped frozen. When ready to use, thaw and aliquot the sample as needed. Store aliquots at -70°C, if available, otherwise store at -20°C. It is not recommended to keep aliquots at 4°C for more than one week
Guarantee	12 months from date of despatch
Acknowledgements	
Health And Safety Information	Material Safety Datasheet documentation #20479 available at: https://www.bio-rad-antibodies.com/SDS/TZA0148P

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)
HUMAN ANTI NIRSEVIMAB (TZA0147)
HUMAN ANTI NIRSEVIMAB (TZA0148)

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
'M449474:260126'

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