

Datasheet: MCA4674

BATCH NUMBER 169689

Description:	MOUSE ANTI METAPNEUMOVIRUS
Specificity:	METAPNEUMOVIRUS
Other names:	MPV
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	HMPV24
Isotype:	IgG2a
Quantity:	0.2 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
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting		▪		
Immunofluorescence	▪			1/40 - 1/80

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.

Target Species	Viral
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative	0.09% Sodium Azide (NaN ₃)

Stabilisers

Carrier Free Yes

Approx. Protein Concentrations IgG concentration 1.0mg/ml

Immunogen Sub-type A hMPV virus isolate NCL03-4/145.

RRID AB_1628872

Specificity **Mouse anti Metapneumovirus antibody, clone HMPV24** recognizes human metapneumovirus (hMPV), a member of the *Paramyxoviridae* RNA virus family. Metapneumovirus was discovered in 2001 and is distributed worldwide. Infection in the upper respiratory tract is associated with mild illness, while lower respiratory tract infection can cause fever, cough, pneumonia, bronchiolitis and wheezing. Severe lower respiratory tract infection is most common in the very young, the very old and the immunosuppressed. Metapneumovirus is a common cause of respiratory infection.

Phylogenetic analysis has shown two major genotypes, A and B, each containing two sub-divisions, suggesting that four distinct lineages circulate in the population with different lineages predominating in different years. Mouse anti Metapneumovirus antibody, clone HMPV24 recognizes the fusion protein of all sub-types (A1, A2, B1 and B2) of hMPV and may be used in conjunction with clones [HMPV57](#), [HMPV123](#) and [HMPV33](#) to detect all strains of hMPV.

Mouse anti Metapneumovirus antibody, clone HMPV24 does not cross-react with cell cultures infected with hRSV, influenzaviruses A and B, adenovirus, parainfluenza viruses 1, 2, 3 and 4b, mumps virus, measles virus, *varicella-zoster* virus, *herpes simplex* virus types 1 and 2, human cytomegalovirus, human herpesvirus type 6, ECHOvirus 19, Coxsachievirus B4, poliovirus types 1-3, HHV6 or uninfected HeLa, MA104, 3MK, LLC-MK, HEp2, MRC-5 and HSB-2 cells. It also does not react with sputum bacteria.

References 1. Dubois, J. *et al.* (2017) Mutations in the fusion protein heptad repeat domains of human metapneumovirus impact on the formation of syncytia. [J Gen Virol. 98 \(6\): 1174-1180.](#)

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

Health And Safety Information Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA4674>
10040

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP

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