Datasheet: MCA401

BATCH NUMBER 158367

Description:	MOUSE ANTI INFLUENZA A MATRIX PROTEIN
Specificity:	INFLUENZA A MATRIX PROTEIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	GA2B
Isotype:	IgG1
Quantity:	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
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin	▪			
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			
Immunofluorescence	▪			1/100

Where this antibody 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 antibody 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 Stabilisers	0.09% Sodium Azide

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Influenza A / Puerto Rico / 8 / 34 (H1N1) and A/Bangkok / 1 / 79 (H3N2) viruses.
External Database Links	**UniProt:** P03485 Related reagents P03487 Related reagents **Entrez Gene:** 956527 M1 Related reagents
RRID	AB_322157
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the P3 Ag8.653 mouse myeloma cell line.
Specificity	**Mouse anti Influenza A matrix protein 1 antibody, clone GA2B** recognizes an epitope within the influenza A matrix protein 1. In both strains of virus used as immunogen to isolate clone GA2B, the matrix protein 1 is a 252 amino acid, highly conserved viral protein playing a crucial role in replication. Mouse anti Influenza A matrix protein 1 antibody, clone GA2B can be used in influenza A IFA typing in conjunction with Mouse anti Influenza A matrix protein, clone AA5H.
Purity	>90% IgG content as established by SDS PAGE
References	1. Latham, T. & Galarza, J.M. (2001) Formation of wild-type and chimeric influenza virus-like particles following simultaneous expression of only four structural proteins. J Virol. 75 (13): 6154-65. 2. Zhirnov, O.P. & Klenk, H.D. (1997) Histones as a target for influenza virus matrix protein M1. Virology. 235 (2): 302-10. 3. Viemann, D. *et al.* (2011) H5N1 virus activates signaling pathways in human endothelial cells resulting in a specific imbalanced inflammatory response. J Immunol. 186 (1): 164-73. 4. Yamamoto, Y. *et al.* (2008) Avian influenza virus (H5N1) replication in feathers of domestic waterfowl. Emerg Infect Dis. 14: 149-51. 5. Doucet, J.D. *et al.* (2011) Endogenously expressed matrix protein M1 and nucleoprotein of influenza A are efficiently presented by class I and class II major histocompatibility complexes. J Gen Virol. 92 (Pt 5): 1162-71. 6. Tanimura N *et al.* (2006) Pathology of fatal highly pathogenic H5N1 avian influenza virus infection in large-billed crows (*Corvus macrorhynchos*) during the 2004 outbreak in Japan. Vet Pathol. 43 (4): 500-9. 7. Kirkeby, S. *et al.* (2009) Infection with human H1N1 influenza virus affects the expression of sialic acids of metaplastic mucous cells in the ferret airways. Virus Res. 144: 225-32. 8. Pauli, E.K. *et al.* (2008) Influenza A virus inhibits type I IFN signaling via NF-kappaB-

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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/MCA401 10040
Regulatory	For research purposes only

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

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'M384153:210513'

Printed on 05 Feb 2024