

PRODUCT SPECIFICATION



HYB 344-01 Anti Influenza A (M)

Mouse monoclonal antibody

Article No.	64153 (0.2 mL), 101062 (1.0 mL)											
Product Name	HYB 344-01 Anti Influenza A (M)											
Clone	22D11											
Subclass	IgG1 / Kappa											
Description	Preparation:	Protein-A purified										
	Concentration:	1 mg/mL \pm 10%, based on A ₂₈₀ . See Certificate of Analysis for details.										
	Solvent:	PBS, pH 7.2 – 7.4										
	Storage:	-18 °C or colder										
Antigen	The influenza A viruses belong to the family Orthomyxoviridae (1) and the Influenza A virions are 80-120 nm in diameter. The virus has an envelope with a host-derived lipid bilayer covered with about 500 projecting glycoprotein spikes with hemagglutinating and neuraminidase activities. These activities correspond to the two major surface viral glycoproteins: the hemagglutinin (HA) and neuraminidase (NA), present as homotrimers and homotetramers, respectively. Within the envelope, a matrix protein (M, ~27 kDa) and a nucleoprotein (NP, ~56 kDa) protect the viral RNA.											
Immunogen	BPL inactivated and sucrose purified viral particles from a H5N2 strain (A/chicken/Belgium/150/99).											
Specificity	The antibody is specific for Influenza A virus Matrix protein (M).											
Epitope Specificity	Not determined.											
Reactivity	The antibody reacts well in ELISA as well as in western blot detecting a band at approximately 27 kDa corresponding to the matrix protein.. HYB 344-01 can be used for immunostaining of influenza A virus-infected cells (figure 1).											
Culture Medium	Dulbecco's modified Eagle's medium with 10% fetal calf serum.											
Fusion Partner	X63-Ag8.653.											
Immunization	Female NMRI mice were immunized i.p. with immunogen.											
Application	<table border="1"><thead><tr><th>Method</th><th>Usability</th></tr></thead><tbody><tr><td>ELISA</td><td>yes</td></tr><tr><td>Immunoblotting</td><td>yes</td></tr><tr><td>Immunofluorescence</td><td>nd.</td></tr><tr><td>Immunocytochemistry</td><td>yes</td></tr></tbody></table>	Method	Usability	ELISA	yes	Immunoblotting	yes	Immunofluorescence	nd.	Immunocytochemistry	yes	
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References	1) Lamb, R. (1989). Genes and Proteins of the Influenza Viruses. In The Influenza Viruses, R. M. Krug, ed. (New York, Plenum Press), pp. 1-67.											

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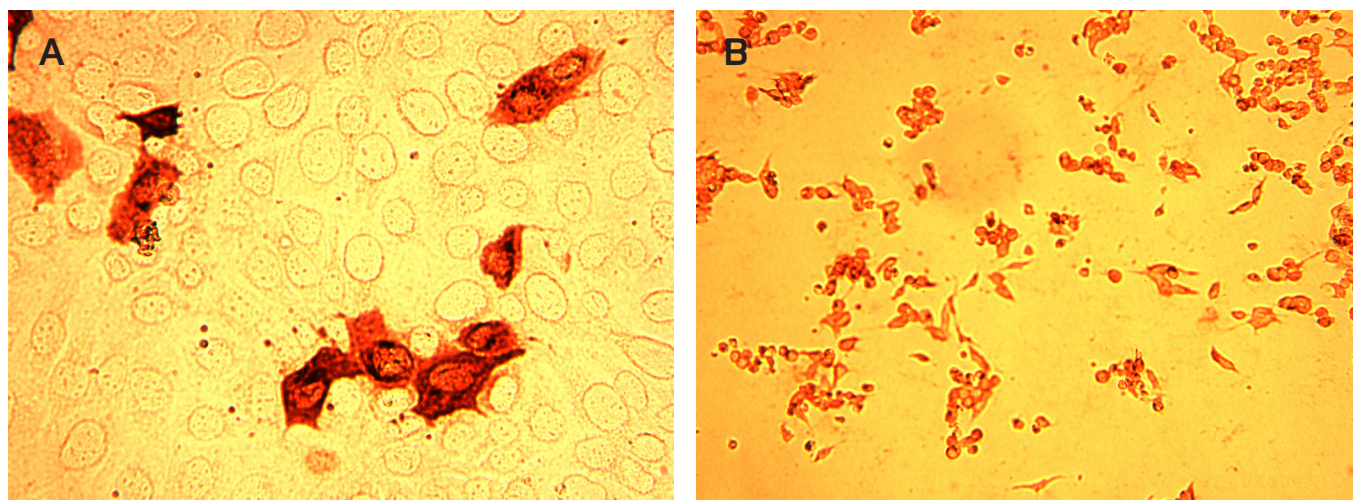


Figure 1 Immunostaining of Influenza A/California/07/09 H1N1 virus-infected MDCK cells by HYB 344-01 (A). Immunostaining of Influenza A/Hongkong/4801/14 H3N2 virus-infected MDCK cells by HYB 344-01 (B).

Conditions

For research use only. Not for use in diagnostic procedures. Not for therapeutic use or applications.

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