

PRODUCT SPECIFICATION



HYB 340-05 Anti Influenza A (NP)

Mouse monoclonal antibody

Article No.	64152 (0.2 mL), 101061 (1.0 mL)										
Product Name	HYB 340-05 Anti Influenza A (NP)										
Clone	22D7										
Subclass	IgG1										
Description	<p>Preparation: Protein-A purified</p> <p>Concentration: 1 mg/mL ± 10%, based on A₂₈₀. See Certificate of Analysis for details.</p> <p>Solvent: PBS, pH 7.2 – 7.4</p> <p>Storage: -18 °C or colder</p>										
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 haemagglutinating and neuraminidase activities. These activities correspond to the two major surface viral glycoproteins: the haemagglutinin (HA) and neuraminidase (NA), present as homotrimers and homotetramers, respectively. Within the envelope, a matrix protein (M) and a nucleoprotein (NP) 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 Nucleoprotein (NP).										
Epitope Specificity	HYB 340-05 reacts with a different epitope compared to HYB 340-01.										
Reactivity	HYB 340-05 reacts well in ELISA and can be used in a sandwich ELISA in combination with HYB 340-01 for efficient detection of influenza A viruses including avian influenza. HYB 340-05 can also be used for serological determination of antibodies against influenza A in meat juice samples (2). HYB 340-05 can be used for immunostaining of influenza A virus-infected cells (figure 1). Reactivity can be reduced by the presence of detergents.										
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>No</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	No	Immunofluorescence	nd.	Immunocytochemistry	Yes
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References	<p>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.</p> <p>2) Ajjouri and Jørgensen (2006) Simple blocking ELISA for the detection of antibodies directed against influenza A nucleoprotein in serum and meat juice. IVVDC 2006 Oslo,</p>										

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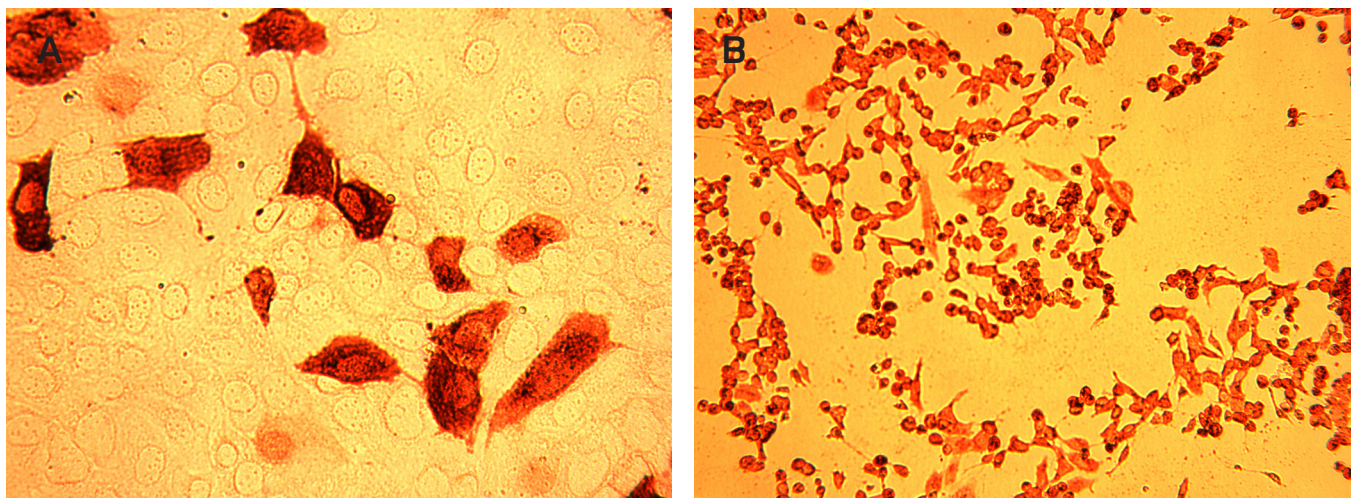


Figure 1 Immunostaining of Influenza A/California/07/09 H1N1 virus-infected MDCK cells by HYB 340-05 (A). Immunostaining of Influenza A/Hongkong/4801/14 H3N2 virus-infected MDCK cells by HYB 340-05 (B).

Conditions

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

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