

# PRODUCT SPECIFICATION



## HYB 340-01 Anti Influenza A (NP)

*Mouse monoclonal antibody*

<b>Article No.</b>	64151 (0.2 mL), 101060 (1.0 mL)										
<b>Product Name</b>	HYB 340-01 Anti Influenza A (NP)										
<b>Clone</b>	16F6										
<b>Subclass</b>	IgG2a										
<b>Description</b>	<p><b>Preparation:</b> Protein-A purified</p> <p><b>Concentration:</b> 1 mg/mL ± 10%, based on A<sub>280</sub>. See Certificate of Analysis for details.</p> <p><b>Solvent:</b> PBS, pH 7.2 – 7.4</p> <p><b>Storage:</b> -18 °C or colder</p>										
<b>Antigen</b>	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) and a nucleoprotein (NP) protect the viral RNA.										
<b>Immunogen</b>	BPL inactivated and sucrose purified viral particles from a H5N2 strain (A/chicken/Belgium/150/99).										
<b>Specificity</b>	The antibody is specific for Influenza A virus Nucleoprotein (NP).										
<b>Epitope Specificity</b>	HYB 340-01 reacts with a different epitope compared to HYB 340-05.										
<b>Reactivity</b>	<p>HYB 340-01 reacts well in ELISA and can be used in a sandwich ELISA in combination with HYB 340-05 for efficient detection of influenza A viruses including avian influenza. HYB 340-01 can also be used for serological determination of antibodies against influenza A. HYB 340-01 can be used for immunostaining of influenza A virus-infected cells (figure 1).</p> <p>Reactivity can be reduced by the presence of detergents.</p>										
<b>Culture Medium</b>	Dulbecco's modified Eagle's medium with 10% fetal calf serum.										
<b>Fusion Partner</b>	X63-Ag8.653.										
<b>Immunization</b>	Female NMRI mice were immunized i.p. with immunogen.										
<b>Application</b>	<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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<b>References</b>	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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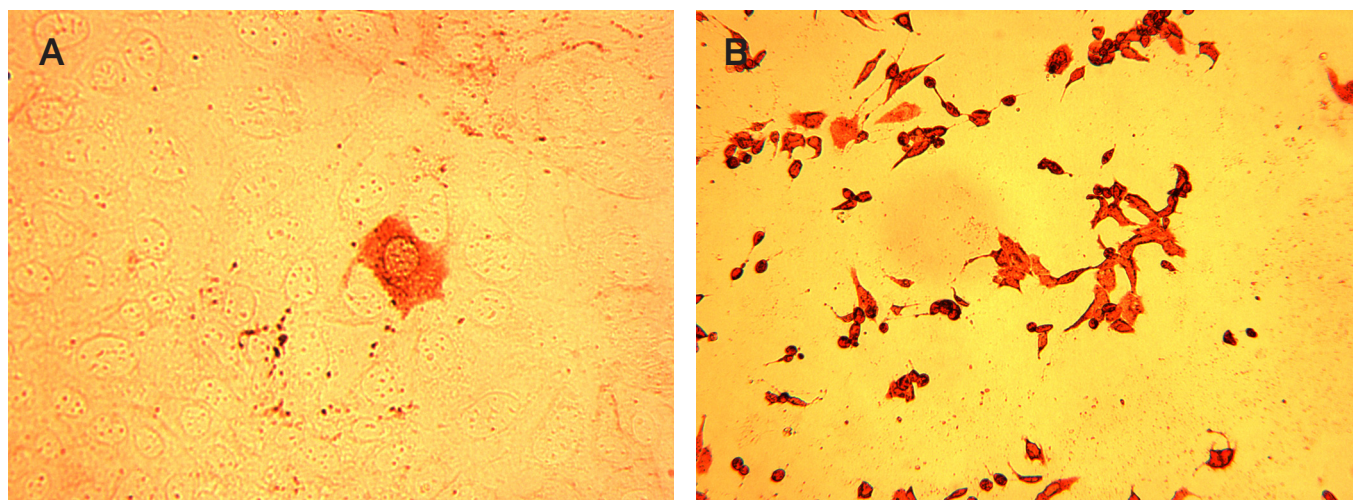


Figure 1 Immunostaining of Influenza A/California/07/09 H1N1 virus-infected MDCK cells by HYB 340-01 (A). Immunostaining of Influenza A/Hongkong/4801/14 H3N2 virus-infected MDCK cells by HYB 340-01 (B).

## **Conditions**

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

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