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Certificate of Analysis and Data Sheet

Mouse Anti-Influenza A Virus (subtype H1N1)

Catalog No.	Isotype/Clone:	Species:	Accession No:
130-00011	Mouse IgG1/8E3.C2	Virus	N/A

Description

H1N1 is a subtype specie of Influenza A virus. H1N1 Influenza Virus has mutated into various strains such as the Spanish Flustrain, mild humanflu strains, endemic pigstrains, and various strains found in birds. The Influenza A Virus is a globular particle about 100nm in diameter, sheathed in a lipid bilayer derived from the plasma membrane of its host. Studded in the lipid bilayer are two integral membrane proteins some 500 molecules of hemagglutinin ("H") and some 100 molecules of neuraminidase ("N"). Within the lipid bilayer are 3000 molecules of matrix protein and 8 pieces of RNA. Each of the 8 RNA molecules is associated with many copies of a nucleoprotein, several molecules of the three subunits of its RNA polymerase some "non-structural" protein molecules of uncertain function.

Applications

Table Summary of antibody applications and working conditions

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	•			1:1000-4000
Western Blotting	•			1-2 µg/ml
Immunohistology - frozen			#	
Immunohistology -paraffin			#	
Immunohistology - resin			#	
Immunoprecipitation			#	
Flow Cytometry			#	
Immunofluorence staining			#	
Neutralization			#	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.

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Preparation

Immunogen was recombinant protein derived from H1N1 Influenza Virus (New Caledonia/20/99). This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with the immunogen. The IgG fraction of tissue culture supernatant was purified by Protein G/A affinity chromatography.

Specificity

This antibody was selected for its ability to detect H1N1 Influenza Virus A. In ELISA and Western Blot, this antibody showed specifically binding to recombinant protein from the strain above and its cross-reactivity with H1N1 from other strains was not tested yet.

Reconstitution

Supplied as lyophilized and purified antibody originally containing PBS, without **Preservative Stabilizers,** liking Sodium Azide. *It final concentration is indicated in shipping vial*.

The antibody is stable for at least years from the data of receipt when stored at -20^{0}C to -70^{0}C. Reconstituted antibody (suggesting with sterile PBS) can also be aliquotted and stored frozen at -20^{0}C to -70^{0}C in a manual defrost freezer for months without detectable loss activity. Upon reconstitution, the antibody can be stored at 4^{0}C for 1 month. **Please avoid freeze-thaw cycles.**

Storage

Store at -20^{0}C, if not intended for use within a month, keep it at 4^{0}C and minimize freezing and thawing when use.

Reference

Scholtissek, C., H. Burger, P. A. Bachmann, and C. Hannoun. 1983. Genetic relatedness of hemagglutinins of the H1 subtype of influenza A viruses isolated from swine and birds. Virology 129:521–523.

Ito, T., J. N. S. S. Couceiro, S. Kelm, L. G. Baum, S. Krauss, M. R. Castrucci,I. Donatelli, H. Kida, J. C. Paulson, R. G. Webster, and Y. Kawaoka. 1998. Molecular basis for the generation in pigs of influenza A viruses with pandemic potential. J. Virol. 72:7367–7373.