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Antibody to Influenza-A Hemagglutinin H1N1
MOUSE MONOCLONAL

Catalog Number: AB-493
Quantity: 10 micrograms, 50 micrograms, 1 milligram
Format: PBS, pH 7.4 and 0.1 % NaN₃.
Host: Mouse
Isotype: IgG1
Clone: IA-H1N1
Immunogen: Influenza A hemagglutinin H1N1

Background:

H1N1 is a subtype species of influenza A virus. H1N1 influenza virus has mutated into various strains such as the Spanish flu strain, mild human flu strains, endemic pig strains, and various strains found in birds. The influenza A virus is a globular particle about 100 nm 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 3,000 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, and some "non-structural" protein molecules of uncertain function.

Specificity and Preparation:

Hybridoma clones have been derived from hybridization of Sp2/0 myeloma cells with spleen cells of Balb/c mice immunized with influenza A/NewCaledonia/20/99 H1N1 derived from allantoic fluid of 10 day old embryonated eggs. Purified by protein-A column. Protein concentration: in PBS, pH 7.4 and 0.1% NaN₃.

Usage and Storage:

Reported to be effective for immunodetection in direct or indirect ELISA, sandwich immunoassay, and immunoblotting (western blot). Recommended pairs for influenza A H1N1 in sandwich immunoassay (coating – conjugate): All pairs detect H1N1 of influenza A as well as recombinant H1N1 with high specificity and do not interact with haemagglutinin H3N2.

Store at 4°C for long periods. Stable two years at 4°C. Antibody is shipped in liquid form with ice packs. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate.

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