BACKGROUND

Influenza viruses are divided into three types, designated A, B and C. Influenza types A and B are responsible for epidemics of respiratory illness that occur almost every winter and are often associated with increased rates for hospitalization and death. Influenza type A viruses are divided into subtypes based on differences in two viral proteins called hemagglutinin (H) and neuraminidase (N). The Influenza A virus ns1 protein is a type I IFN antagonist that plays an important role in viral pathogenesis. The interaction of the ns1 protein with host-cell factors plays a significant role in viral pathogenesis. NS1 is a nonstructural protein that is located in the nucleus and affects cellular RNA transport, splicing and translation. NS2 is a nonstructural protein that localizes to the nucleus and the cytoplasm. NS2 is essential for nuclear export of influenza virus ribonucleoprotein (RNP) complexes.

REFERENCES


SOURCE

Influenza A ns1 (NS1-23-1) is a mouse monoclonal antibody raised against recombinant protein corresponding to the N-terminal domain of ns1 of Influenza A/Puerto Rico/8/34 (H1N1) virus origin.

PRODUCT

Each vial contains 200 µg IgG; kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Influenza A ns1 (NS1-23-1) is available conjugated to agarose (sc-130568 AC), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-130568 PE), fluorescein (sc-130568 AF546), Alexa Fluor® 546 (sc-130568 AF546), Alexa Fluor® 594 (sc-130568 AF594) or Alexa Fluor® 647 (sc-130568 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-130568 AF680) or Alexa Fluor® 790 (sc-130568 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

Influenza A ns1 (NS1-23-1) is recommended for detection of ns1 of Influenza Virus strains A/Puerto Rico/8/34 (H1N1), A/FPV/Bratislava/79 (H7N7), A/goose/Guangdong/1/96 (H5N1), A/FPV/Rostock/34 (H7N1), A/WSN-HK reassortant (H1N2), A/Victoria/3/75 (H3N2), A/Thailand/KAN-1/04 (H5N1) and Influenza Virus strains A/Puerto Rico/8/34 (H1N1), A/FPV/Bratislava/79 (H7N7), A/goose/Guangdong/1/96 (H5N1), A/FPV/Rostock/34 (H7N1), A/WSN-HK reasortant (H1N2), A/Victoria/3/75 (H3N2), A/Thailand/KAN-1/04 (H5N1) origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with Influenza B virus.

DATA

Influenza A ns1 (NS1-23-1): sc-130568. Western blot analysis of Influenza A ns1 expression in human A549 lung epithelial cells infected with Victoria (H5N2) (A), Asian subtype (H5N1) (B), and PR8/34 (C) influenza virus strains. Kindly provided by Dr. Viktor Wixler, University of Münster.

SELECT PRODUCT CITATIONS


RESEARCH USE

For research use only, not for use in diagnostic procedures.