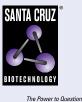
SANTA CRUZ BIOTECHNOLOGY, INC.

Influenza A m1 (FluAc): sc-69824



The Power to Questi

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 (HA) and neuraminidase (NA). The influenza virus matrix 1, otherwise known as m1, is a critical protein required for assembly and budding. Hemagglutinin (HA) and neuraminidase (NA) interact with influenza virus m1; HA associates with m1 via its cytoplasmic tail and transmembrane domain. The m2 and NB proteins are critical in the replication cycle of influenza viruses. The m2 channel protein is an essential component of the viral envelope because of its ability to form a highly selective, pH-regulated, proton-conducting channel. The m2 channel allows protons to enter the interior of the virus and acidification weakens the interaction of the m1 protein with the ribonuclear core.

REFERENCES

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SOURCE

Influenza A m1 (FluAc) is a mouse monoclonal antibody raised against recombinant Influenza A m1.

PRODUCT

Each vial contains 100 $\mu g\, lgG_{2b}$ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

Store at 4° C, **D0 NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

Influenza A m1 (FluAc) is recommended for detection of Influenza A m1 of Influenza A virus by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker[™] Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz[®] Mounting Medium: sc-24941 or UltraCruz[®] Hard-set Mounting Medium: sc-359850.

SELECT PRODUCT CITATIONS

- 1. Halder, U.C., et al. 2011. Cell death regulation during Influenza A virus infection by matrix (M1) protein: a model of viral control over the cellular survival pathway. Cell Death Dis. 2: e197.
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- Sun, Y., et al. 2024. Influenza virus infection activates TAK1 to suppress RIPK3-independent apoptosis and RIPK1-dependent necroptosis. Cell Commun. Signal. 22: 372.

RESEARCH USE

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

Molecular Weight of Influenza A m1: 38 kDa.