# Influenza A m1 (156-02): sc-57880



The Power to Overtion

#### **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 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 and 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 (156-02) is a mouse monoclonal antibody raised against unpurified Influenza A/Puerto Rico/8/34 (H1N1) virus and purified Influenza A virus.

#### **PRODUCT**

Each vial contains 100  $\mu g \; lg G_1$  in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

# **STORAGE**

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

### **PROTOCOLS**

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

## **APPLICATIONS**

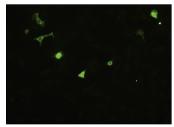
Influenza A m1 (156-02) is recommended for detection of m1 of Influenza A Virus origin by immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Molecular Weight of Influenza A m1: 38 kDa.

#### **RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Immunofluorescence: use goat anti-mouse IgG-FITC: sc-2010 (dilution range: 1:100-1:400) or goat anti-mouse IgG-TR: sc-2781 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

#### **DATA**



Influenza A m1 (156-02): sc-57880. Immunofluorescence staining of acetone-fixed, influenza A-infected Vero cells HeLa cells showing cytoplasmic and nuclear

# **RESEARCH USE**

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

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