Monoclonal Anti-Influenza Virus H9 Hemagglutinin (HA) Protein (1073-9), A/Hong Kong/1073/1999 (H9N2), (ascites, Mouse)

Catalog No. NR-9489
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For research use only. Not for human use.

Contributor and Manufacturer:
St. Jude Children’s Research Hospital (CEIRS)

Product Description:
Antibody Class: IgG1.κ, IgM.κ
Note: The hybridoma used to prepare this preparation may not be monoclonal and/or the preparation may contain endogenous murine immunoglobulin.

Mouse antibody (1073-9)\(^1\)\(^2\) specific to a recombinant form of the H9 hemagglutinin (HA) protein (GenPept: CAB95856)\(^3\) of the A/Hong Kong/1073/1999 (H9N2) strain of influenza virus was produced in mouse ascites. Ascites formation was induced by injecting cultured hybridoma cells into the peritoneal cavity of BALB/c mice that had been primed with incomplete Freund’s adjuvant. Antibody-rich ascites fluid was aseptically harvested 1 to 2 weeks following hybridoma cell injection. The harvested ascites fluid was pooled and then clarified using centrifugation and filtration. Sodium azide (0.02%) and gentamycin (0.01%) were added to the pooled ascites fluid prior to vialing and lyophilization.

HA is an antigenic glycoprotein found on the envelope of the influenza A virus. This protein binds to cellular receptors on the target cell and allows the influenza A virus to enter via endocytosis and membrane fusion. HA is an important target for drug and vaccine development.

Material Provided:
Each vial of NR-9489 contains lyophilized (0.5 mL containing 0.02% sodium azide and 0.01% gentamycin) mouse ascites fluid.

Packaging/Storage:
NR-9489 was packaged in glass serum vials with an aluminum crimp seal. The product is provided frozen and should be stored at -20°C to -40°C immediately upon arrival. Storage at warmer temperatures is not recommended due to a low bioburden. At colder temperatures, the rubber stopper may become brittle and compromise the seal. NR-9489 should be reconstituted with 0.5 mL of sterile distilled water. Reconstituted material should be stored at -20°C to -40°C. Reconstituted material may be thawed at room temperature and should be re-frozen.

Functional Activity:
NR-9489 is specific for the H9 HA subtype of the influenza A virus as determined in standard hemagglutination inhibition (HI) assays. NR-9489 also demonstrates reactivity within the H9 HA subtype. HI titers with 20 different influenza strains of the H9 HA subtype representing Eurasian and North America lineages, as well as H9 HA viruses from other geographic areas, are shown on the Certificate of Analysis. No reactivity was observed with several viruses of North American lineage.

Biosafety Level: 1

Citation:
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-Influenza Virus H9 Hemagglutinin (HA) Protein (1073-9), A/Hong Kong/1073/1999 (H9N2), (ascites, Mouse), NR-9489."

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References:

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