Monoclonal Antibody Panel, Anti-Influenza A Virus H9 Hemagglutinin (HA) Protein

Catalog No. NR-9691

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For research use only. Not for human use.

Contributor:
BEI Resources

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

Product Description:

The monoclonal antibody panel, NR-9691, consists of six monoclonal antibodies (MAbs)\(^1\) - \(^4\): 1) G9-25, G1-26 and 1073-9 directed against the hemagglutinin (HA) protein of influenza A virus, A/chicken/Hong Kong/G9/1997 (H9N2),\(^5\) A/quechua/Hong Kong/G1/1997 (H9N2),\(^6\) and A/Hong Kong/1073/1999 (H9N2)\(^7\), respectively, and 2) MAbs 15F1, 18G4 and 2F4 directed against the HA of influenza A virus A/duck/Hong Kong/Y280/1997 (H9N2)\(^8\) (see Table 1). All monoclonal antibodies were produced in mouse ascites. Ascites formation was induced by injecting 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.

Packaging/Storage:
This product 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. Each vial should be reconstituted with 0.2 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:
All six monoclonal antibodies are specific for the H9 HA subtype of the influenza A virus as determined in standard hemagglutination inhibition (HI) assays. In addition 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 Antibody Panel, Anti-Influenza A Virus H9 Hemagglutinin (HA) Protein, NR-9691.”

Disclaimers:
You are authorized to use this product for research use only. It is not intended for human use.

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### Table 1

<table>
<thead>
<tr>
<th>BEI Resources #</th>
<th>MAbs</th>
<th>Antibody Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>NR-9482</td>
<td>G9-25</td>
<td>IgG2a.k, IgA.k</td>
</tr>
<tr>
<td>NR-9485</td>
<td>G9-26</td>
<td>IgG1.k</td>
</tr>
<tr>
<td>NR-9488</td>
<td>1073-9</td>
<td>IgG1a.k, IgM.k</td>
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<td>NR-9491</td>
<td>15F1</td>
<td>IgG2b.k</td>
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<tr>
<td>NR-9494</td>
<td>18G4</td>
<td>IgG2b.k</td>
</tr>
<tr>
<td>NR-9497</td>
<td>2F4</td>
<td>IgG2b.k</td>
</tr>
</tbody>
</table>

Note: The hybridoma used to prepare NR-9482 and NR-9488 preparation may not be monoclonal and/or the preparation may contain endogenous murine immunoglobulin.

All six MAbs are available individually by ordering the indicated BEI Resources #.

Material Provided:
Each vial contains lyophilized (0.2 mL containing 0.02% sodium azide and 0.01% gentamycin) mouse ascites fluid.

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References:

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