

# Polyclonal Anti-Influenza Virus Matrix Protein (M), B/Hong Kong/8/73, (antiserum, Goat)

## Catalog No. NR-3110

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## Lot (NIAID Catalog) No. V-307-501-157

## For research use only. Not for human use.

### Contributor:

National Institutes of Allergy and Infectious Diseases (NIAID),  
National Institutes of Health

### Manufacturer:

St. Jude Children's Research Hospital

### Product Description:

Reagent: Polyclonal antiserum

Host: Goat

Immunizing Antigen: Influenza virus matrix protein (M),  
B/Hong Kong/8/73

### Material Provided/Storage:

Content: Lyophilized serum

Original Volume: 1.0 mL

Storage Temperature: 4°C

### Functional Activity:

#### Hemagglutination Inhibition (HI):

Conditions: HI activity was determined as described.<sup>1</sup>

Briefly, the dilutions of antisera were allowed to interact with antigen for 60 minutes at 20°C before the addition of chicken erythrocytes.

#### Titer:

Influenza B virus, B/Hong Kong/8/73: <1:20

Influenza B virus, B/Lee/40: <1:20

Influenza A virus, A/NWS/34: <1:20

#### Neuraminidase Inhibition (NI):

Conditions: Neuraminidase (NA) activity was assayed by the method of Warren<sup>2</sup>, except that the color was extracted into *n*-butanol containing 5% (v/v) concentrated hydrochloric acid.<sup>3</sup> NI tests were performed as described.<sup>4</sup> To preclude steric inhibition in the NI tests, an antigenic hybrid possessing an irrelevant hemagglutinin (HA) subunit was used.

#### Titer:

Influenza B virus, B/Hong Kong/8/73: <1:20

Influenza B virus, B/Lee/40: <1:20

#### Double Immunodiffusion:

Conditions: Hyland double immunodiffusion plates after disruption of purified virus with SDS<sup>5</sup>

#### Strong Positive Reaction:

Influenza B virus, B/Hong Kong/8/73

Influenza B virus, B/Lee/40

#### Negative Reaction:

Influenza A virus, A/NWS/34

### Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Polyclonal Anti-Influenza Virus Matrix Protein (M), B/Hong Kong/8/73, (antiserum, Goat), NR-3110."

### Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see [www.cdc.gov/biosafety/publications/bmbl5/index.htm](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

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### References:

1. Fazekas de St. Groth, S. and R. G. Webster. "Disquisitions on Original Antigenic Sin. I. Evidence in Man." J. Exp. Med. 124 (1966): 331-345. PubMed: 5922742.

2. Warren, L. "The Thiobarbituric Acid Assay of Sialic Acids." J. Biol. Chem. 234 (1959): 1971–1975. PubMed: 13672998.
3. Aminoff, D. "Methods for the Quantitative Estimation of N-acetylneuraminic Acid and their Application to Hydrolysates of Sialomucoids." Biochem. J. 81 (1961): 384–392. PubMed: 13860975.
4. Webster, R. G. and H. G. Pereira. "A Common Surface Antigen in Influenza Viruses from Human and Avian Sources." J. Gen. Virol. 3 (1968): 201–208. PubMed: 5698682.
5. Schild, G. C. and H. G. Pereira. "Characterization of the Ribonucleoprotein and Neuraminidase of Influenza A Viruses by Immunodiffusion." J. Gen. Virol. 4 (1969): 355–363. PubMed: 4977660.

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