

**Monoclonal Anti-Influenza Virus H1 Hemagglutinin (HA), A/California/04/2009 (H1N1)pdm09, Clone S-OIV-5H7 (produced *in vitro*)**

**Catalog No. NR-19866**

This reagent is the property of the U.S. Government.

**Product Description:** Mouse monoclonal antibody (clone S-OIV-5H7) prepared against the H1 hemagglutinin (HA) protein of the A/California/04/2009 (H1N1)pdm09 strain of influenza virus was purified from clone S-OIV-5H7 hybridoma supernatant by protein G affinity chromatography.

**Lot: 61581929**

**Manufacturing Date: 22MAR2013**

TEST	SPECIFICATIONS	RESULTS
<b>Antibody Class Determination</b>	Report results	IgG2ak
<b>Experion Pro260 Analysis</b>	Correct molecular weight (MW) for heavy and light chains Report results	Correct MW for heavy and light chains (Figure 1) 98.9% pure
<b>Concentration by Spectrophotometer at OD<sub>280</sub></b>	Report results	1.0 mg/mL
<b>Functional Activity</b> Indirect Immunofluorescence Assay with A/California/04/2009 (H1N1)pdm09-infected MDCK cells <sup>1</sup> (Figure 2) NR-19866 NR-36433 <sup>2</sup>  ELISA <sup>3</sup> rHA from A/California/04/2009 (H1N1)pdm09 <sup>4</sup> rNA from A/Anhui/1/2005 (H5N1) <sup>5</sup>	Fluorescence observed No fluorescence observed  Reactive Not reactive	Weak fluorescence observed No fluorescence observed  Reactive Not reactive
<b>Sterility</b>	0.22 µm filter-sterilized	0.22 µm filter-sterilized

<sup>1</sup>MDCK cells (ATCC® CCL-34™) were infected with influenza virus A/California/04/2009 (H1N1)pdm09 (BEI Resources NR-13658) at an MOI of 0.001 and stained 3 days later with the monoclonal antibody indicated at dilutions of 1:100 and 1:300, followed by FITC-conjugated goat anti-mouse IgG F(ab')<sub>2</sub> fragment (Millipore 5008).

<sup>2</sup>BEI Resources NR-36433, monoclonal anti-influenza virus N1 Neuraminidase (NA), A/Vietnam/1194/2004 (H5N1), clone 2B9, was used as a negative control.

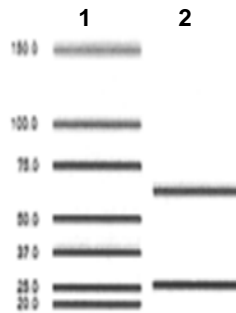
<sup>3</sup>Wells were coated with 20 ng of the recombinant protein indicated, blocked, and incubated with NR-19866 at dilutions of 1:100 and 1:300, followed by biotin-conjugated goat anti-mouse IgG (H & L) (Rockland Immunochemicals (610-1602), peroxidase-conjugated streptavidin (Rockland Immunochemicals S000-03) and TMB ELISA peroxidase substrate (Rockland Immunochemicals TMBE-1000). Absorbance was read at 450 – 650 nm.

<sup>4</sup>BEI Resources NR-15749

<sup>5</sup>Sino Biological 1176-VNAHC

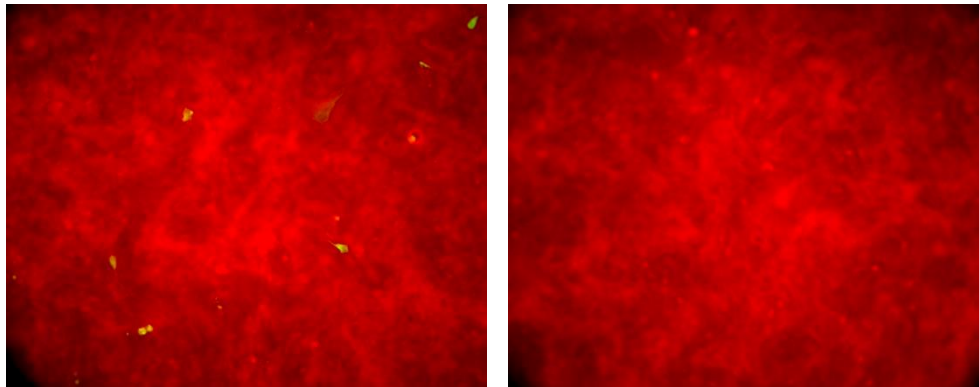
# Certificate of Analysis for NR-19866

Figure 1



Lane 1: MW Markers (kDa)  
Lane 2: NR-19866

Figure 2



A. NR-19866 (1:100)

B. NR-36433 (1:100)

Date: 27 JUN 2013

Signature:

Title: Technical Manager, BEI Authentication or designee

ATCC<sup>®</sup>, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC<sup>®</sup>'s knowledge.

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