

Certificate of Analysis for NR-19864

Monoclonal Anti-Influenza Virus H1 Hemagglutinin (HA), A/California/04/2009 (H1N1)pdm09, Clone S-OIV-3B2 (produced *in vitro*)

Catalog No. NR-19864

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

Product Description: Mouse monoclonal antibody 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-3B2 hybridoma supernatant by protein G affinity chromatography.

Lot: 59476514 Manufacturing Date: 10NOV2010

TEST	SPECIFICATIONS	RESULTS
Antibody Class Determination	Report results	IgG2aλ
Experion Pro260 Analysis	Correct molecular weight (MW) for heavy and light chains Report results	Correct MW for heavy and light chains (Figure 1) 97.5% pure
Concentration by Spectrophotometer at OD ₂₈₀	Report results	1.0 mg/mL
Functional Activity Indirect Immunofluorescence Assay (Figure 2) ¹ A/California/04/2009 (H1N1)pdm09 ² A/swine/lowa/15/1930 (H1N1) ³	Fluorescence observed Fluorescence observed	Fluorescence observed Fluorescence observed
ELISA Indirect ⁴ rHA from A/California/04/2009 (H1N1)pdm09 ⁵ rHA1 from A/swine/Iowa/15/1930 (H1N1) ⁶ Sandwich ⁷	Report results Report results Report results	Reactive Reactive Not tested
Sterility	0.22 µm filter-sterilized	0.22 µm filter-sterilized

¹MDCK cells (ATCC[®] CCL-34[™]) were infected with the indicated influenza virus at an MOI of 0.1 and stained 3 days later with a 1:300 dilution of NR-19864 and FITC-conjugated goat anti-mouse IgG F(ab')2 fragment (Millipore 5008).

BEI Resources www.beiresources.org E-mail: contact@beiresources.org

Tel: 800-359-7370 Fax: 703-365-2898

NR-19864_59476514_29MAY2013

²BEI Resources NR-13658

³ATCC[®] VR-1683™

⁴Wells were coated with 5 to 20 ng of recombinant H1 HA from the indicated influenza virus, blocked and incubated with a 1:100 dilution of NR-19864 followed by biotin-conjugated goat anti-mouse IgG + IgM (H & L) (Rockland Immunochemicals 610-106-115), peroxidase-conjugated streptavidin (Rockland Immunochemicals S000-03) and tetramethylbenzidine (TMB) ELISA peroxidase substrate (Rockland Immunochemicals TMBE-1000). Absorbance was read at 450 – 650 nm.

⁵BEI Resources NR-15749

⁶Immune Technology IT-003-SW3p

In combination with NR-19866 and NR-19867, NR-19864 has been used in a sandwich ELISA to distinguish influenza A (H1N1)pdm09 viruses from other swine-origin H1 viruses as well as human seasonal H1N1 and H3N2 viruses (Shao, H., et al. "A Monoclonal Antibody-Based ELISA for Differential Diagnosis of 2009 Pandemic H1N1." Influenza Other Respi. Viruses 5 Suppl. 1 (2011): 138-141. PubMed: 21761586).



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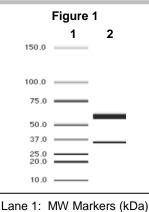
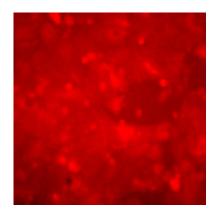
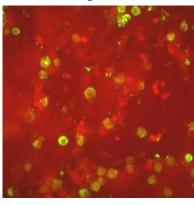


Figure 2

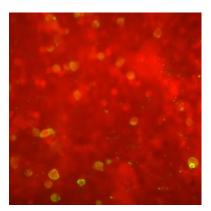
Lane 2: NR-19864



A. Mock-infected



B. A/California/04/2009 (H1N1)pdm09-infected



C. A/swine/lowa/15/1930-infected

Date: 29 MAY 2013

Signature:

Title:

oignature.

Technical Manager, BEI Authentication or designee

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BEI Resources www.beiresources.org E-mail: contact@beiresources.org
Tel: 800-359-7370

Fax: 703-365-2898