

**H7 Hemagglutinin (HA) Protein from Influenza Virus, A/Shanghai/1/2013 (H7N9), Recombinant from Baculovirus**

**Catalog No. NR-44079**

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

**Product Description:** A recombinant form of the H7 hemagglutinin (HA) protein from influenza A virus, A/Shanghai/1/2013 (H7N9) was produced in Sf9 insect cells using a baculovirus expression vector system, purified by nickel affinity chromatography, and treated with thrombin to remove a C-terminal histidine tag.

**Lot: 62815527**

**Manufacturing Date: 09DEC2014**

TEST	SPECIFICATIONS	RESULTS
<b>Appearance</b>	Clear and colorless	Clear and colorless
<b>SDS-PAGE</b>	Protein band of interest represents > 95% of total staining intensity	Dominant band of ~ 70 kDa accounts for ~ 95% of total staining intensity (Figure 1)
<b>Concentration by Bradford Assay<sup>1</sup></b>	Report results	396 µg per mL
<b>Final Product</b> Quantity per vial Volume per vial	Report results Report results	119 µg 300 µL
<b>Functional Activity</b> Hemagglutination activity 0.5% chicken red blood cells 0.5% turkey red blood cells  Western blot analysis Polyclonal anti-H7 HA <sup>2</sup> Monoclonal anti-histidine tag <sup>3</sup>	Report results Report results  Reactive Not reactive	Positive Positive  Reactive (Figure 2) Not reactive (Figure 3)
<b>Endotoxin Content (Limulus Amoebocyte Lysate Assay)</b>	Report results	< 12.6 EU per mg
<b>Filtration</b>	0.2 µm sterile-filtered	0.2 µm sterile-filtered

<sup>1</sup>Using BSA as a standard

<sup>2</sup>Immune Technology Corp. (Cat. No. IT-003-081) (1:1000 dilution)

<sup>3</sup>R & D Systems® (Cat. No. MAB050) (IgG1) (1:1000 dilution)

**Date:** 05 FEB 2015

**Signature:** 

**Title:** Technical Manager, BEI Authentication or designee

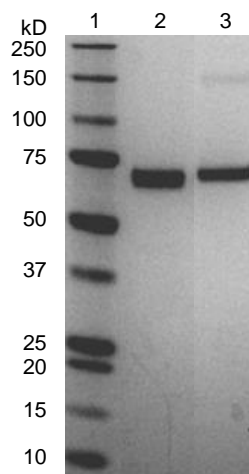
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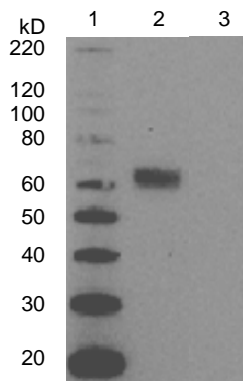


Figure 1: SDS-PAGE



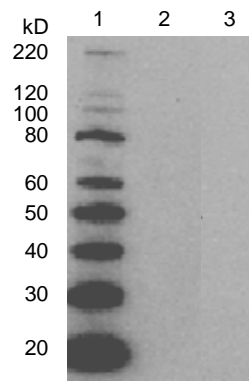
Lane 1: Precision Plus Protein™ Standard  
 Lane 2: NR-44079, 1.0 µg  
 Lane 3: BSA, 1.0 µg

Figure 2: Western Blot with Polyclonal Anti-H7 HA



Lane 1: MagicMark™ XP Protein Standard  
 Lane 2: NR-44079, 0.5 µg  
 Lane 3: BSA, 0.5 µg

Figure 3: Western Blot with Monoclonal Anti-Histidine Tag



Lane 1: MagicMark™ XP Protein Standard  
 Lane 2: NR-44079, 0.5 µg  
 Lane 3: BSA, 0.5 µg