

**HA1 Hemagglutinin (HA) Protein with N-Terminal Histidine Tag from Influenza Virus, A/Brisbane/59/2007 (H1N1), Recombinant from Baculovirus**

**Catalog No. NR-13411**

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

**Product Description:** The HA1 form of the H1 hemagglutinin protein from influenza virus A/Brisbane/59/2007 (H1N1) containing an N-terminal histidine tag was produced in Sf9 insect cells using a baculovirus expression vector system and was purified using conventional chromatographic techniques.

**Lot: 58582682**

**Manufacturing Date: 19MAY2009**

TEST	SPECIFICATIONS	RESULTS
<b>Appearance</b>	Clear and colorless	Clear and colorless
<b>SDS-PAGE (Coomassie Blue densitometer scan)</b>	Dominant band of expected size (41 kDa)	Dominant band of expected size (41 kDa) (Figure 1)
<b>Experion Pro260 Analysis</b>	> 95% pure	> 95% pure
<b>Mass Spectrometry</b>	Measured mass within 5% of expected mass based on amino acid sequence: 41017 daltons	Measured mass ~ 1% of expected mass based on amino acid sequence: 41434 daltons
<b>Identification by Mass Spectrometry of Protease Digested Protein</b>	Report results	63% of total residues accounted for in peptides of expected mass
<b>Concentration by Bradford Assay<sup>1</sup></b>	Report results	116 µg/mL
<b>Final Product</b> Quantity per vial Volume per vial	Report results Report results	26.4 µg 227 µL
<b>Functional Activity</b> Hemagglutination activity using 0.5% chicken red blood cells Western blot analysis Polyclonal anti-H1 HA <sup>2</sup> Monoclonal anti-histidine tag <sup>3</sup>	Report results  Reactive Reactive	No hemagglutination activity  Reactive (Figure 2) Reactive (Figure 3)
<b>Sterility</b>	Report results	0.22 µm sterile-filtered

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

<sup>2</sup>Immune Technology Corp. (Cat. No. IT-003-001)

<sup>3</sup>R & D Systems® (Cat. No. MAB050) (IgG<sub>1</sub>)

Figure 1 – SDS-PAGE

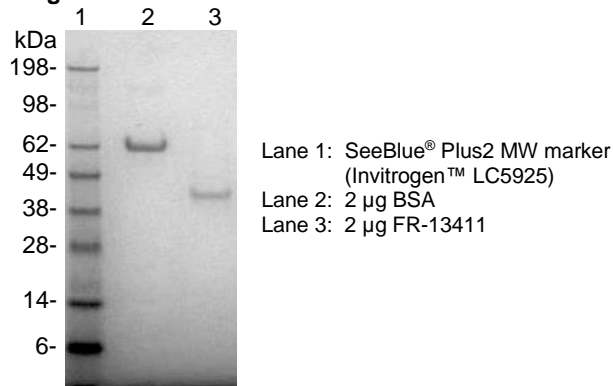


Figure 2 - Western Blot with Polyclonal Anti-H1 HA

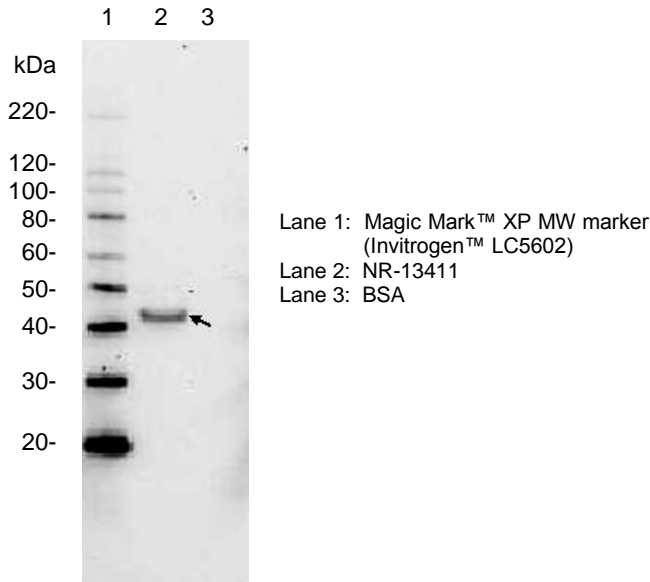
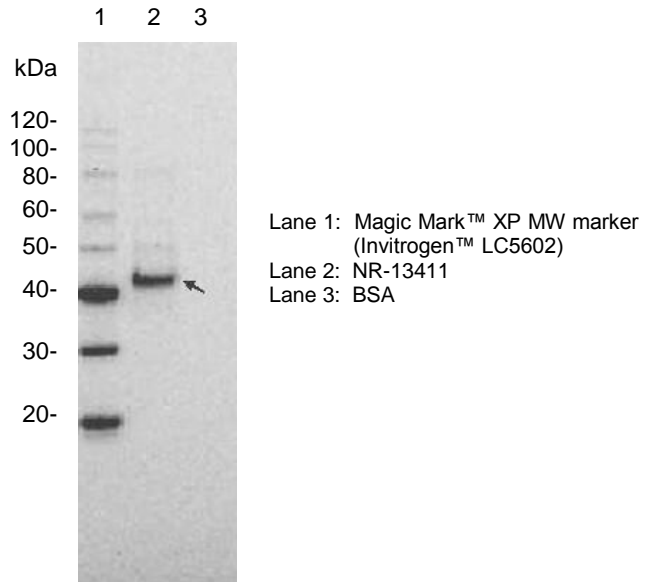


Figure 3 - Western Blot with Monoclonal Anti-Histidine Tag



Date: 25 OCT 2010

Signature: *Dorothy C. Young*

Title: Technical Manager, BEI Authentication of designee

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