

H1 Hemagglutinin (HA) Protein with C-Terminal Histidine Tag from Influenza Virus, A/New Caledonia/20/1999 (H1N1), Recombinant from Baculovirus

Catalog No. NR-48873

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

Product Description: A recombinant form of the H1 hemagglutinin (HA) protein from influenza A virus, A/New Caledonia/20/1999 (H1N1) containing a C-terminal histidine tag was produced in Sf9 insect cells using a baculovirus expression vector system and was purified by nickel affinity chromatography.

Lot: 70016783

Manufacturing Date: 18DEC2018

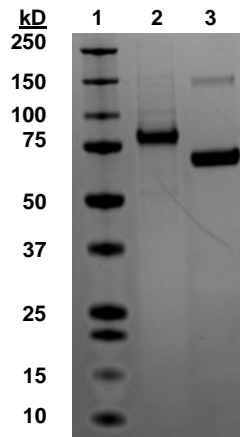
TEST	SPECIFICATIONS	RESULTS
Appearance	Clear and colorless	Clear and colorless
SDS-PAGE Analysis	Protein band of interest represents > 90% of total staining intensity	Protein band of ~ 75 kDa accounting for > 95% of total staining intensity (Figure 1)
Identification by Western Blot Analysis Polyclonal anti-H1 HA ¹ Monoclonal anti-histidine tag ²	Reactive Reactive	Reactive (Figure 2) Reactive (Figure 3)
Protein Concentration by Bicinchoninic Acid Protein Assay³	Report results	234 µg per mL
Final Product Amount per vial Volume per vial	Report results Report results	105 µg 450 µL
Functional Activity Hemagglutination activity 0.5% chicken red blood cells 0.5% turkey red blood cells	Report results Report results	Positive Positive
Endotoxin Content (Limulus Amoebocyte Lysate Assay)	1 – 1000 EU per mg	< 21.36 EU per mg
Filtration	0.2 µm sterile-filtered	0.2 µm sterile-filtered

¹Monoclonal Anti-H1, A/New Caledonia/20/99 (H1N1) from Immune Technology Corp. (Cat. No, IT-003-001M24) (1:100,000 dilution) was used for analysis.

²Monoclonal anti-histidine tag from R & D Systems (Cat. No. MAB050) (1:1000 dilution) was used for analysis.

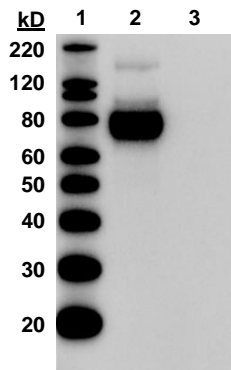
³Bovine serum albumin (BSA) was used as a standard.

Figure 1: SDS-PAGE Analysis of Recombinant HA Protein (NR-48873)



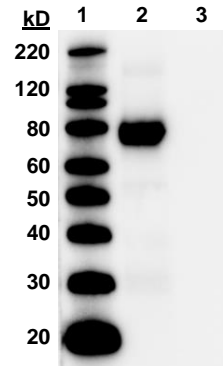
Lane 1: Precision Plus™ Protein Standard
 Lane 2: NR-48873, 1 µg
 Lane 3: BSA, 1 µg

Figure 2: Western Blot with Monoclonal Anti-H1 HA



Lane 1: MagicMark™ XP Protein Standard
 Lane 2: NR-48873, 0.1 µg
 Lane 3: BSA, 0.1 µg

Figure 3: Western Blot with Monoclonal Anti-Histidine Tag



Lane 1: MagicMark™ XP Protein Standard
 Lane 2: NR-48873, 0.5 µg
 Lane 3: BSA, 0.5 µg

/Heather Couch/
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Program Manager or designee, ATCC Federal Solutions

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