

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

Product Description:

A recombinant form of the H1 hemagglutinin (HA) protein from influenza A virus, A/New Caledonia/20/1999 (H1N1), was produced in Sf9 insect cells using a baculovirus expression vector system and was purified by nickel affinity chromatography. NR-48873 includes additional plasmid encoded residues at both the N-terminal and C-terminal ends, as well as T4 foldon trimerization domain, thrombin cleavage site and C-terminal octa-histidine tag.

Lot: 70046612

Manufacturing Date: 10JUN2022

TEST	SPECIFICATIONS	RESULTS
Appearance	Clear and colorless	Clear and colorless
SDS-PAGE Analysis	Protein band of interest represents > 90% of total staining intensity	Dominant band of ~ 75 kDa accounts for > 97% of total staining intensity (Figure 1)
Concentration by Bradford Assay Bovine Serum Albumin (BSA; standard)	Report results	320 µg per mL
Final Product Amount per vial Volume per vial	Report results Report results	128 µg 400 µL
Functional Activity Hemagglutination activity using 0.5% turkey red blood cells 0.5% chicken red blood cells 0.5% turkey red blood cells	Reactive Reactive Reactive	Positive Positive Positive
Identification by Western Blot Analysis Monoclonal anti-histidine tag ¹ Monoclonal anti-H1 HA ²	Reactive Reactive	Reactive (Figure 2) Reactive (Figure 3)
Endotoxin Content (Limulus Amoebocyte Lysate Assay)	Report results	<15.7 EU per mg
Filtration	0.2 µm sterile-filtered	0.2 µm sterile-filtered

¹Using a 1:1000 dilution of mouse monoclonal anti-histidine tag (Santa Cruz SC-8036) as primary antibody and a 1:1000 dilution of HRP-conjugated goat anti-mouse IgG (R&D Systems HAF007) as secondary antibody.

²Using a 1:100,000 dilution of rabbit monoclonal anti-H1 A/New Caledonia/20/99 (H1N1) from Immune Technology Corp. (Cat. No. IT-003-001M24) and a 1:1000 dilution of HRP-conjugated goat anti-mouse IgG (R&D Systems HAF007) as secondary antibody.

Figure 1: SDS-PAGE

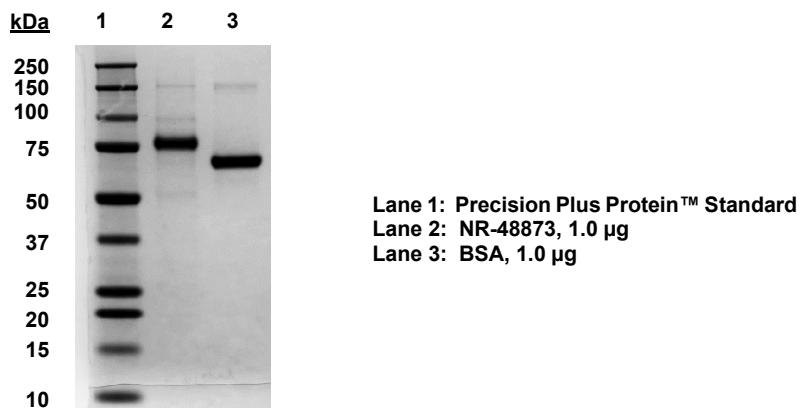
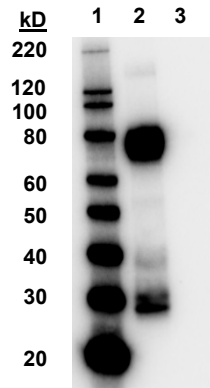
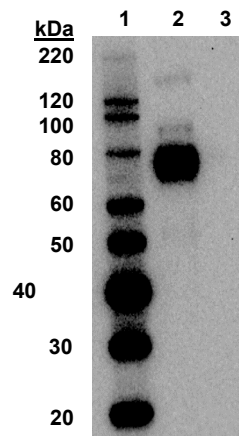


Figure 2: Western Blot with Monoclonal Anti-Histidine Tag



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

Figure 3: 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

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Technical Manager or designee, ATCC Federal Solutions

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