

H1 Hemagglutinin (HA) Protein with C-Terminal Histidine Tag from Influenza Virus, A/California/04/2009 (H1N1)pdm09, Recombinant from Baculovirus

Catalog No. NR-15749

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/California/04/2009 (H1N1)pdm09 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. The HA protein includes a C-terminal peptide containing a thrombin cleavage site, trimerizing (foldon) domain and octa-histidine tag, as described for the 1918 pandemic virus. Lot 70041927 was vialled in phosphate-buffered saline (pH 7.4) with 50% glycerol.

Lot: 70041927

Manufacturing Date: 23JUL2021

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 ~ 70 kDa accounts for 94.6% of total staining intensity (Figure 1)
Identification by Western Blot Analysis Monoclonal anti-histidine tag Polyclonal anti-HA	Reactive Reactive	Reactive (Figure 2) ¹ Reactive (Figure 3) ²
Concentration by Bradford Assay Bovine Serum Albumin (BSA; standard)	Report results	0.238 mg per mL
Final Product Quantity per vial Volume per vial	Report results Report results	107 µg 450 µL
Endotoxin Content Limulus Amoebocyte Lysate Assay	Report results	< 21.0 EU per mg
Filtration	0.2 µm sterile-filtered	0.2 µm sterile-filtered

¹Using a 1:5000 dilution of mouse monoclonal anti-histidine tag (Takara, Cat. No. 631212) as primary antibody and a 1:5000 dilution of HRP-conjugated goat anti-mouse IgG (R&D Systems, Cat. No. HAF007) as secondary antibody

²Using a 1:5000 dilution of rabbit polyclonal anti-HA (H1N1/California/06/2009) (Immune Tech, Cat. No. IT-003-SW) as primary antibody and a 1:5000 dilution of HRP-conjugated mouse anti-rabbit IgG (Santa Cruz Biotechnology, Cat. No. SC-2357) as secondary antibody

Figure 1: SDS-PAGE Analysis

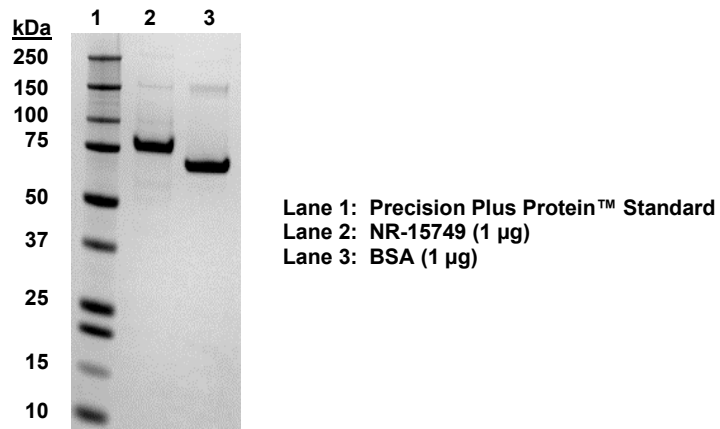
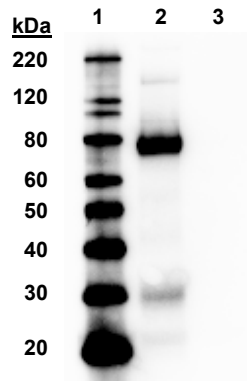


Figure 2: Western Blot with Monoclonal Anti-Histidine Tag

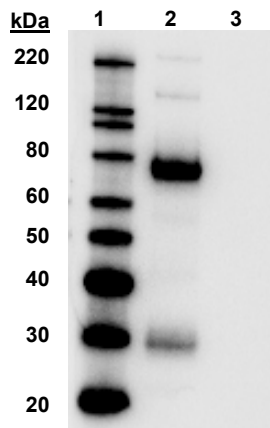


Lane 1: MagicMark™ XP Protein Standard

Lane 2: NR-15749 (0.5 µg)

Lane 3: BSA (0.5 µg)

Figure 3: Western Blot with Polyclonal Anti-HA



Lane 1: MagicMark™ XP Protein Standard

Lane 2: NR-15749 (0.5 µg)

Lane 3: BSA (0.5 µg)

/Heather Couch/

Heather Couch

Program Manager or designee, ATCC Federal Solutions

07 DEC 2021

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

