

**Glycoprotein F (dFP) from Human Respiratory Syncytial Virus (RSV), A2 with C-Terminal Histidine Tag, Recombinant from HEK293F Cells**

**Catalog No. NR-59414**

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

**Product Description:**

NR-59414 was produced from an expression vector (BEI Resources NR-55426), encoding the human respiratory syncytial virus (RSV), A2 recombinant postfusion F glycoprotein variant. The recombinant protein was expressed in HEK293F cells and purified by nickel affinity chromatography.

**Lot: 70059959**

**Manufacturing Date: 30AUG2023**

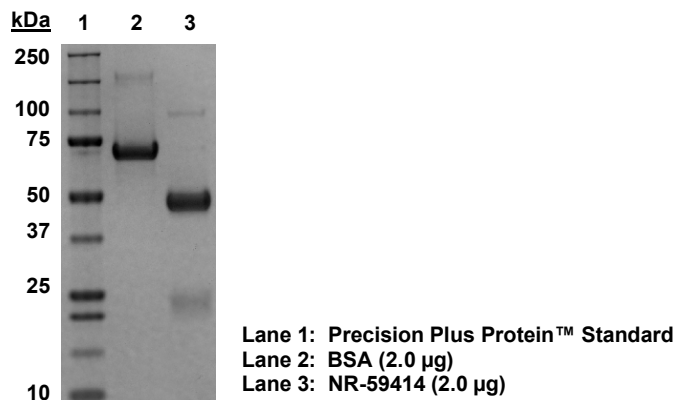
TEST	SPECIFICATIONS	RESULTS
<b>Appearance</b>	Report results	Clear
<b>SDS-PAGE Analysis</b>	Protein bands of interest represent > 90% of total staining intensity	A major band of ~ 50 kDa and a minor band of ~ 25 kDa account for > 90% of total staining intensity (Figure 1) <sup>1</sup>
<b>Concentration by Bicinchoninic Acid Assay</b> Bovine Serum Albumin (standard)	Report results	0.7 mg/mL
<b>Vial Content</b> Amount per vial Volume per vial	Report results Report results	94.5 µg 0.135 mL
<b>Identification by Western Blot Analysis</b> Polyclonal antiserum to RSV <sup>2</sup> Monoclonal anti-histidine tag <sup>3</sup>	Reactive Reactive	Reactive (Figure 2) Reactive (Figure 3)
<b>Endotoxin Content (Limulus Amebocyte Lysate Assay)</b>	Report results	< 16.1 EU/mg
<b>Filtration</b>	0.2 µm sterile-filtered	0.2 µm sterile-filtered

<sup>1</sup>SDS Page was run under reducing conditions. The two bands may represent F1 and F2 subunits of Glycoprotein F (dFP).

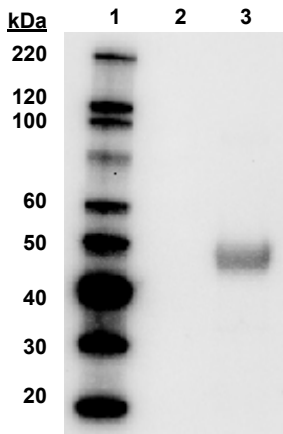
<sup>2</sup>Using a 1:1000 dilution of human polyclonal antiserum to RSV (BEI Resources Catalog No. NR-4021) as the primary antibody and a 1:1000 dilution of HRP-conjugated goat anti-human IgG (Millipore Sigma Catalog No. AP112P) as the secondary antibody.

<sup>3</sup>Using a 1:1000 dilution of anti-His Monoclonal Antibody (Takara Catalog No. 631212) as the primary antibody and a 1:1000 dilution of HRP-conjugated goat anti-mouse IgG (R&D Systems® Catalog No HAF007) as the secondary antibody.

**Figure 1: SDS-PAGE Analysis**

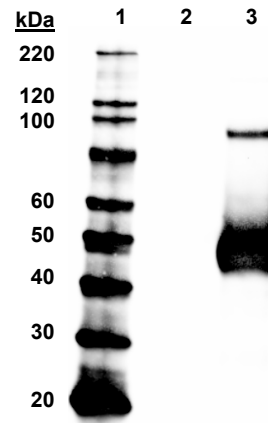


**Figure 2: Anti-RSV Western Blot Analysis**



Lane 1: MagicMark™ XP Protein Standard  
 Lane 2: BSA (2.0 µg)  
 Lane 3: NR-59414 (2.0 µg)

**Figure 3: Anti-Histidine Tag Western Blot Analysis**



Lane 1: MagicMark™ XP Protein Standard  
 Lane 2: BSA (1.0 µg)  
 Lane 3: NR-59414 (1.0 µg)

/Sonia Bjorum Brower/  
 Sonia Bjorum Brower

Technical Manager or designee, ATCC Federal Solutions

06 DEC 2023

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected by the contributor 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.

