

Glycoprotein F (dFP) from 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 Respiratory Syncytial Virus A2 (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
Appearance	Report results	Clear
SDS-PAGE Analysis	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) ¹
Concentration by Bicinchoninic Acid Assay Bovine Serum Albumin (standard)	Report results	0.7 mg/mL
Vial Content Amount per vial Volume per vial	Report results Report results	94.5 µg 0.135 mL
Identification by Western Blot Analysis Polyclonal antiserum to RSV ² Monoclonal anti-histidine tag ³	Reactive Reactive	Reactive (Figure 2) Reactive (Figure 3)
Endotoxin Content (Limulus Amebocyte Lysate Assay)	Report results	< 16.1 EU/mg
Filtration	0.2 µm sterile-filtered	0.2 µm sterile-filtered

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

²Using 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.

³Using 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

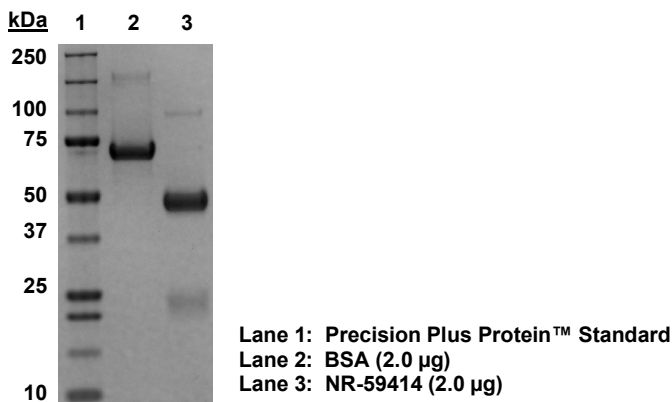
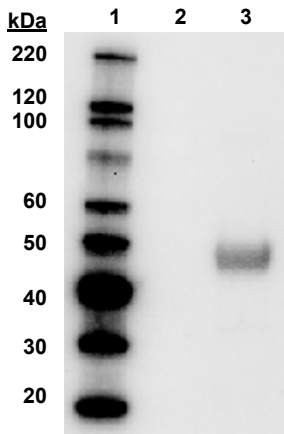
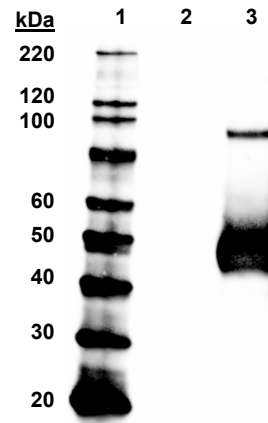


Figure 2: Anti-RSV Western Blot Analysis



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)

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