Certificate of Analysis for NR-21986

L1R Protein from Vaccinia Virus (WR) with C-terminal Histidine Tag, Recombinant from Baculovirus

Catalog No. NR-21986

Product Description:

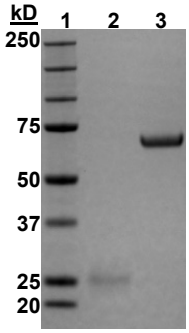
A recombinant form of the L1R membrane glycoprotein of the Western Reserve (WR) strain of Vaccinia Virus (VV) containing a C-terminal hexa-histidine tag was produced in High-5 insect cells using a baculovirus expression system and purified using nickel affinity chromatography. NR-21986 contains residues 1 to 185 of the L1R protein.

Lot: 70059698 **Manufacturing Date: 28APR2023**

TEST	SPECIFICATIONS	RESULTS
Appearance	Clear and colorless with no particulate matter	Clear and colorless, no particulate matter
Purity by SDS-PAGE Densitometry Scan	Protein band (s) of interest represents > 90% of total staining intensity	Protein band of interest represents 100% of total staining intensity (Figure 1)
Concentration by Bicinchoninic Acid Assay Bovine Serum Albumin (BSA; standard)	Report results	1.51 mg/mL
Vial Contents Quantity per vial Volume per vial	 Report results Report results	 187 µg 125 µL
Identification by Western Blot Polyclonal anti-Vaccinia Virus[1] Monoclonal anti-L1R[2] Monoclonal anti-A33R[3] Monoclonal anti-histidine tag[4]	 Reactive Reactive Report results Reactive	 Reactive (Figure 2A) Reactive (Figure 2B) Non-reactive (Figure 2C) Reactive (Figure 2D)
Endotoxin Content Limulus Amoebocyte Lysate Assay	 Report results	 18.4 EU/mg
Filtration	Report results	0.2 µm sterile-filtered

[1]Using a 1:500 dilution of human polyclonal anti-Vaccinia Virus immune globulin (BEI Resources NR-650) as primary antibody and a 1:1000 dilution of HRP-conjugated goat anti-human IgG (Millipore-Sigma AP112P) as secondary antibody.
[2]Using a 1:1000 dilution of mouse monoclonal anti-L1R (BEI Resources NR-417) as primary antibody and a 1:1000 dilution of HRP-conjugated goat anti-mouse IgG (R&D Systems HAF007) as secondary antibody.
[3]Using a 1:500 dilution of mouse monoclonal anti-A33R (BEI Resources NR-565) as primary antibody and a 1:1000 dilution of HRP-conjugated goat anti-mouse IgG (R&D Systems HAF007) as secondary antibody.
[4]Using a 1:1000 dilution of mouse monoclonal anti-histidine tag (R&D Systems MAB050-100) as primary antibody and a 1:1000 dilution of HRP-conjugated goat anti-mouse IgG (R&D Systems HAF007) as secondary antibody.

Figure 1: SDS-PAGE Analysis

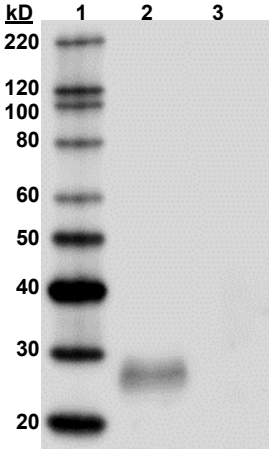


Lane 1: Precision Plus Protein™ Standard
Lane 2: NR-21986 (2 µg)
Lane 3: BSA (2 µg)

BEI Resources
www.beiresources.org
E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898

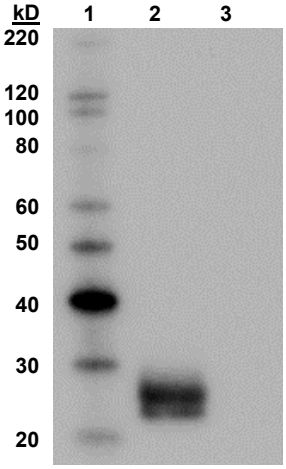
Figure 2: Western Blot Analysis

A: Polyclonal anti-Vaccinia Virus



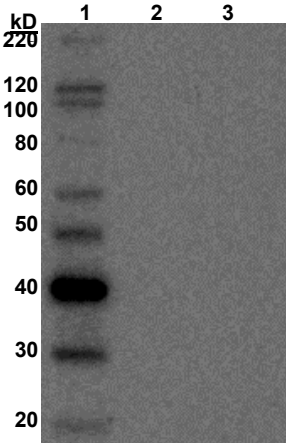
Lane 1: MagicMark™ XP Protein Standard
Lane 2: NR-21986 (1 µg)
Lane 3: BSA (1 µg)

B: Monoclonal anti-L1R



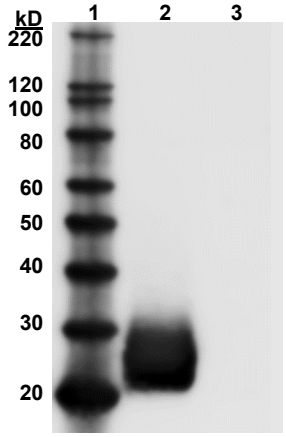
Lane 1: MagicMark™ XP Protein Standard
Lane 2: NR-21986 (1 µg)
Lane 3: BSA (1 µg)

C: Monoclonal anti-A33R



Lane 1: MagicMark™ XP Protein Standard
Lane 2: NR-21986 (1 µg)
Lane 3: BSA (1 µg)

D: Monoclonal Anti-Histidine Tag



Lane 1: MagicMark™ XP Protein Standard
Lane 2: NR-21986 (1 µg)
Lane 3: BSA (1 µg)

/Sonia Bjorum Brower/
Sonia Bjorum Brower 19 OCT 2023
Technical Manager or designee, ATCC Federal Solutions

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.

Support Provided by NIAID

BEI Resources
www.beiresources.org

E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898