

Ebola Virus NP Recombinant Protein | NP recombinant protein

Ebola Virus NP protein

CATALOG #
AAA24009

APPLICATIONS
SDS-Page, Western Blot

PRODUCT SYNONYMS

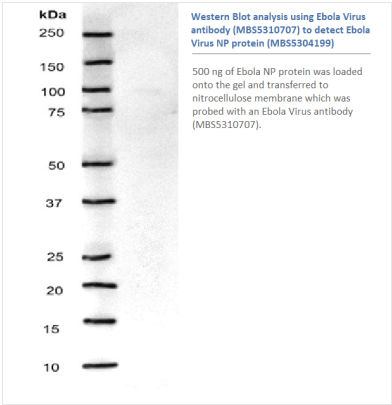
Ebola Virus NP; Ebola Virus NP protein; Ebola Virus Nucleoprotein; Ebola protein; Ebola virus antigen; Zaire Ebola nucleoprotein antigen; Zaire NP protein; Ebola Zaire nucleoprotein antigen; Ebola virus protein; NP recombinant protein

PRODUCT SPECIFICATIONS

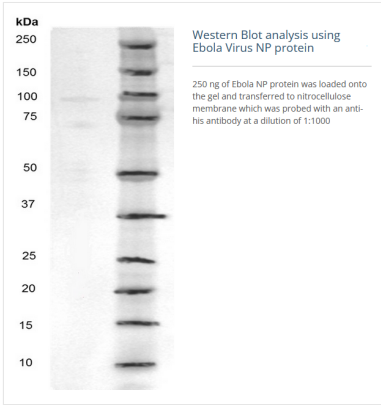
Purity/Purification	> 90% pure Purified by chromatography from Zaire stain, this nucleoprotein is phosphorylated and O-glycosolated by the host organisms cells.
Form/Format	Liquid in 50mM Tris,pH 8, 200 mM NaCl, 8M urea, 1 mM EDTA, 2mM DTT.
Concentration	1.0 mg/mL (varies by lot)
Sequence Length	739
Applicable Applications for NP recombinant protein	SDS-PAGE, WB (Western Blot)
Application Notes	250 ng of Ebola NP protein was loaded onto the gel and transferred to nitrocellulose membrane which was probed with an anti-his antibody at a dilution of 1:1000
Source	Viral
Amino Acid Expression Region	1-739 aa
Tag/Conjugate	His-Tag
Protein Type	Recombinant
Post Translational Modifications	Ebola nucleoprotein is Phosphorylated and O-glycosylated by the host organisms cells.
Biological Significance	The Ebola Virus (EBOV) causes severe hemorrhagic fever with a mortality rate of up to 90%. EBOV is a member of the order Mononegavirales and, like other viruses in this taxonomic group, contains a negative-sense single-stranded (ss) RNA. The EBOV ssRNA encodes seven distinct proteins. One of them, the nucleoprotein (NP), is the most abundant viral protein in the infected cell and within the viral nucleocapsid. Like other EBOV proteins, NP is multifunctional. It is tightly associated with the viral genome and is essential for viral transcription, RNA replication, genome packaging and nucleocapsid assembly prior to membrane encapsulation.
Expression System	E. Coli
Implications in Disease	Typically, Ebola virus infection runs its course within 14 to 21 days. Infection initially presents with nonspecific flu-like symptoms such as fever, myalgia, and malaise. As the infection progresses, patients exhibit severe bleeding and coagulation abnormalities, including gastrointestinal bleeding, rash, and a range of hematological irregularities, such as lymphopenia and neutrophilia. Cytokines are released when reticuloendothelial cells encounter virus, which can contribute to exaggerated inflammatory responses that are not protective. Damage to the liver, combined with massive viremia, leads to disseminated intravascular coagulopathy. The virus eventually infects microvascular endothelial cells and compromises vascular integrity. The terminal stages of Ebola virus infection usually include diffuse bleeding, and hypotensive shock accounts for many Ebola virus fatalities.

Sequence information	The Ebola nucleoprotein is a homooligomer found on the Ebola virus. It homomultimerizes to form the nucleocapsid. At 739 amino acids, the nucleoprotein (NP) of Ebola virus is the largest nucleoprotein of the nonsegmented negative-stranded RNA viruses, and like the NPs of other viruses, it plays a central role in virus replication. The predicted coding region is 2217 bases in length and encodes a protein that contains 739 amino acids, with a calculated molecular weight of 83.3 kDa. The protein has an approximate net charge of -30 and can be divided into a hydrophobic N-terminal half and a hydrophilic and highly acidic C-terminal half.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Ships on dry ice. Upon receipt store at -70°C.

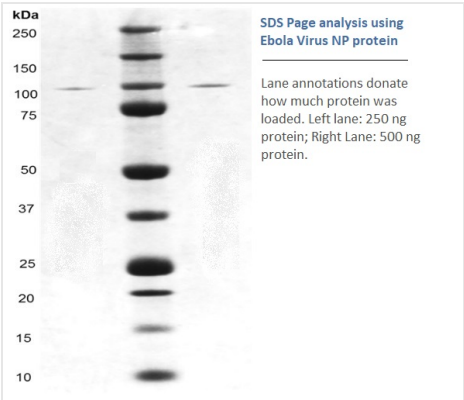
IMAGES



WB (Western Blot)



WB (Western Blot)



SDS-PAGE

ADDITIONAL INFORMATION

Product Categories/Family for NP recombinant protein	Infectious Disease; Conjugated Proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	22789223
NCBI GeneID	955194
NCBI Accession #	NP_690580
NCBI GenBank Nucleotide #	NC_004161.1
Molecular Weight	87 kDa

NCBI Official Full Name	nucleoprotein
NCBI Official Symbol	NP
NCBI Protein Information	nucleoprotein

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/ebola-virus-np-recombinant-protein-sds-page-wb-western-blot/24009>