



## Source

Rabies virus (strain CVS-11) Nucleoprotein, His Tag(NUN-R55H4) is expressed from Baculovirus-Insect cells. It contains AA Met 1 - Ser 450 (Accession # [Q8JXF6](#)).

Predicted N-terminus: Met

## Molecular Characterization

Poly-his Nucleoprotein(Met 1 - Ser 450)  
Q8JXF6

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 52.7 kDa. The protein migrates as 55 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per µg by the LAL method.

## Purity

>90% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 500 mM NaCl, pH7.5 with glycerol as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

## Storage

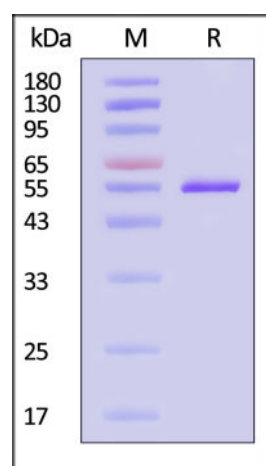
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE

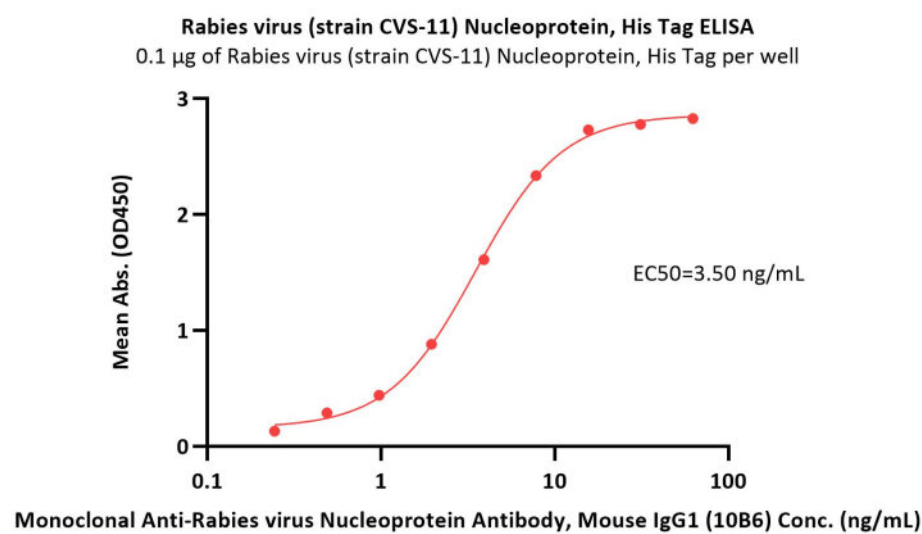


Rabies virus (strain CVS-11) Nucleoprotein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

## Bioactivity-ELISA

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Immobilized Rabies virus (strain CVS-11) Nucleoprotein, His Tag (Cat. No. NUN-R55H4) at 1 µg/mL (100 µL/well) can bind Monoclonal Anti-Rabies virus Nucleoprotein Antibody, Mouse IgG1 (10B6) (Cat. No. NUN-MY311) with a linear range of 0.2-8 ng/mL (QC tested).

## Background

Rabies virus (RABV), scientific name Rabies lyssavirus, is a deadly neurotropic virus that causes rabies in humans and animals. Rabies virus has an extremely wide host range and its transmission most often occur through the saliva of animals. Without intervention prior to disease progression, rabies has the highest case fatality of any infectious disease. RABV contains a single-stranded negative-sense RNA genome that encodes five structural proteins: nucleoprotein (N), phosphoprotein (P), matrix protein (M), glycoprotein (G), and RNA-dependent RNA polymerase (L). RABV N protein is 450 amino acids long and serves the critical function of tightly packaging the RNA genome into an RNase-resistant core. Encapsidation of the genomic RNA by newly synthesized N is believed to switch viral RNA from transcription to replication. Furthermore, N is a major antigen for RABV to stimulate Th cells and antibody production.

## Clinical and Translational Updates

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