



## Omsk hemorrhagic fever virus E protein ectodomain polyclonal antibody

Catalog: NCP0151P

Host: Rabbit

Reactivity: OHFV-E

### BackGround:

Omsk hemorrhagic fever virus (OHFV) is a tick-borne flavivirus classified as a biosafety level-4 (BSL4) pathogen. Studies of OHFV are restricted to be conducted within BSL4 laboratories. Currently, no commercial vaccines or antiviral drugs are available against OHFV infection. In this study, we recovered a replication-deficient OHFV with an NS1 deletion (OHFV- $\Delta$ NS1) and reporter virus replacing NS1 with the Gaussia luciferase (Gluc) (OHFV- $\Delta$ NS1-Gluc). Both the defective OHFV- $\Delta$ NS1 and OHFV- $\Delta$ NS1-Gluc virus could only replicate efficiently in the BHK21 cell line expressing NS1 (BHK21NS1) but not in naïve BHK21 cells. The Gluc reporter gene of OHFV- $\Delta$ NS1-Gluc virus was maintained stably after serial passaging of BHK21NS1 cells and was used to surrogate the replication of OHFV. Using NITD008, OHFV- $\Delta$ NS1-Gluc virus was validated for antiviral screening, and high-throughput screening parameters were optimized in a 96-well plate format with a calculated Z' value above 0.5. The OHFV- $\Delta$ NS1-Gluc reporter virus is a powerful tool for antiviral screening as well as viral replication and pathogenesis studies in BSL2 laboratories.

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2.

### Molecular Weight:

### Swiss-Prot:

NC\_005062.1

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:500~1:2000

ELISA: 1:5000~10000

### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

Omsk hemorrhagic fever virus E protein ectodomain polyclonal antibody detects endogenous levels of OHFV-E protein.

### DATA:

### Note:

For research use only, not for use in diagnostic procedure.

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