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Hantaan Virus Nucleocapsid Antibody
Catalog # ASC11758

Specification

Hantaan Virus Nucleocapsid Antibody - Product Information

Application	**E**
Primary Accession	P05133
Other Accession	AFA36178, 375127553
Reactivity	**Virus**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**N/A KDa**
Application Notes	**Hantaan virus nucleocapsid antibody can detect 10ng Hantaan virus nucleocapsid peptide in ELISA at 1 µg/ml.**

Hantaan Virus Nucleocapsid Antibody - Additional Information

Gene ID	**2943078**

Target/Specificity
HTNVsSgp1;

Reconstitution & Storage
Hantaan virus nucleocapsid antibody can be stored at 4℃ for three months and -20℃, stable for up to one year.

Precautions
Hantaan Virus Nucleocapsid Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Hantaan Virus Nucleocapsid Antibody - Protein Information

Name N

Function
Encapsidates the genome protecting it from nucleases (PubMed:26923588). The encapsidated genomic RNA is termed the nucleocapsid (NC) and serves as template for transcription and replication (Probable). The nucleocapsid has a left-handed helical structure (PubMed:30638449). As a trimer, specifically binds and acts as a chaperone to unwind the panhandle structure formed by the viral RNA (vRNA) termini (By similarity). Involved in the transcription and replication initiation of vRNA by mediating primer annealing (By similarity). Plays a role in cap snatching by sequestering capped RNAs in P bodies for use by the viral RdRp during transcription initiation (By similarity). Substitutes for the cellular cap-binding complex (eIF4F) to preferentially facilitate the translation of capped mRNAs (By similarity). Initiates the translation by specifically binding to the cap and 40S ribosomal subunit (By similarity). Prevents the viral glycoprotein N (Gn) from

autophagy-dependent breakdown maybe by blocking autophagosome formation (PubMed:31091447). Inhibits host EIF2AK2/PKR dimerization to prevent PKR-induced translational shutdown in cells and thus the activation of the antiviral state (By similarity). Also displays sequence-unspecific DNA endonuclease activity (By similarity). Suppresses apoptosis probably through the inhibition of nuclear import of NF-kappa-B (PubMed:20227103).

Cellular Location
Virion. Host cytoplasm, host perinuclear region. Host Golgi apparatus, host cis-Golgi network. Note=Internal protein of virus particle.

Hantaan Virus Nucleocapsid Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Hantaan Virus Nucleocapsid Antibody - Images

Hantaan Virus Nucleocapsid Antibody - Background

Hantaan virus (HNTV) is the prototype virus of the genus hantavirus of the family Bunyaviridae, an enveloped, negative-sense RNA virus that is the eiological agent of Korean hemorrhagic fever (1). Infection of cultured Vero E6 cells with HNTV induced expression of the heat shock protein HSP70. A substantial fraction of HSP70 was found to be associated with the HNTV nucleocapsid (NP) (2). Vero E6 cells that overexpress HSP70 show significantly reduced levels of NP and an increased resistance to infection by HNTV (2).

Hantaan Virus Nucleocapsid Antibody - References

Arikawa J, Lapenotiere HF, Iacono-Connors L, et al. Coding properties of the S and M genome segments of Sapporo rat virus: comparison to other causative agents of hemorrhagic fever with renal syndrome. Virology 1990; 176:114-25.
Yu L, Ye L, Zhao R, et al. HSP70 induced by Hantavirus intfection interacts with viral nucleocapsid protein and its overexpression suppresses virus infection in Vero E6 cells. Am. J. Transl. Res. 2009; 1:367-80.