



Hantavirus (A1C5): sc-57755

BACKGROUND

Hantaviruses are members of the *Bunyviridae* family of viruses that have a negative-sensed, single-stranded RNA genome that consists of three single-stranded RNA segments designated small (S), medium (M) and large (L). These genes encode the nucleocapsid protein, a polyprotein that is co-translationally cleaved to yield the envelope glycoproteins G1 and G2, and the L protein, which functions as the viral transcriptase/replicase. Transcription of the *Hantavirus* genes is initiated by association of the L protein with the three nucleocapsid species. The G1 and G2 glycoproteins form heterooligomers that are then transported from the endoplasmic reticulum to the Golgi complex, where glycosylation is completed. *Hantavirus* virions most likely assemble by association of nucleocapsids with glycoproteins embedded in the membranes of the Golgi. *Hantavirus* causes hemorrhagic fever with renal syndrome (HFRS) as well as Hantavirus (cardio)pulmonary syndrome (HPS or HCPS).

REFERENCES

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SOURCE

Hantavirus (A1C5) is a mouse monoclonal antibody raised against recombinant full length nucleocapsid protein of *Hantavirus* strain CG 18-20 (Puumala serotype).

RESEARCH USE

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

PRODUCT

Each vial contains 250 µl culture supernatant containing IgG₁ with PBS with < 0.1% sodium azide and 1.0% stabilizer protein.

APPLICATIONS

Hantavirus (A1C5) is recommended for detection of Hantavirus of Hantavirus origin by Western Blotting (starting dilution to be determined by researcher, dilution range 1:10-1:200), immunofluorescence (starting dilution to be determined by researcher, dilution range 1:10-1:200) and solid phase ELISA (starting dilution to be determined by researcher, dilution range 1:10-1:200).

STORAGE

For immediate and continuous use, store at 4° C for up to one month. For sporadic use, freeze in working aliquots in order to avoid repeated freeze/thaw cycles. If turbidity is evident upon prolonged storage, clarify solution by centrifugation.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.