

Native hMPV 9 Type A1 Lysate

Cat. No. HUM-418 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Human metapneumovirus 9 type A1 (Strain: IA3-2002) lysate from LLC-mk2 cell line. Purified by sucrose density gradient ultracentrifugation and heat-inactivated, followed by verification with validated tissue culture infectivity assay. Suitable for the development of immunoassays, Western blotting, dot blotting and other protein-based assays.

Background

Human metapneumovirus (hMPV) is a negative-sense, non-segmented, single-stranded RNA virus of the family Pneumoviridae. Its genome is approximately 13,000 nucleotides in length and comprises eight genes that encode nine proteins: The Nucleoprotein (N), Phosphoprotein (P), Matrix protein (M), Fusion protein (F), Matrix-2 proteins (M2-1 and M2-2), Small Hydrophobic (SH) protein, Glycoprotein (G), and the Large (L) polymerase protein (Shafagati et al., 2018). Like the paramyxoviruses, the N, L, and P proteins form the viral replication complex of hMPV and hMPV also exhibits a typical paramyxovirus-like morphology, ranging from 150 to 600 nm in size. There are two major genetic lineages of hMPVs: A and B, which are further divided into the sub-lineages A1, A2, B1, and B2. All HMPV genes fall into these four clades, suggesting that genome recombination is very rare (Yang et al., 2013). While both lineages co-circulate, one lineage tends to dominate each year. hMPV spread through direct or close contact with infected individuals or objects harbouring the virus. The symptoms and presentation of hMPV disease are similar to other respiratory viruses that cause respiratory tract infections, including cough, runny nose, sore throat, fever, wheezing and difficulty breathing.

Applications

Appropriate for the development of immunoassays, Western blotting, dot blotting and

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other protein-based assays.

Notes

This product is intended for research and manufacturing uses only. It is not a diagnostic device. The user assumes all responsibility for care, custody and control of the material, including its disposal, in accordance with all regulations.

Type

Native

ClassID 1

Infectious Disease

GENE INFORMATION**Synonyms**

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