Parainfluenza Virus type 1 (1226): sc-69942



The Power to Questio

BACKGROUND

Human parainfluenza viruses, which belong to the paramyxovirus family, are pleomorphic viruses whose envelope is derived from the last host cell they infected. They comprise a group of four distinct serotypes of single-stranded RNA viruses. Human Parainfluenza Virus type 1 is the most common cause of croup and other upper and lower respiratory tract illnesses. Human Parainfluenza Virus type 2 infections usually follow type 1 infections and also cause croup and other upper and lower respiratory tract illnesses, and may cause aseptic meningitis and parotitis. Human Parainfluenza Virus type 2 forms filamentous particles in virus-infected, polarized epithelial cells. Human Parainfluenza Virus type 3 infections are associated with pneumonia as well as bronchiolitis and typically last longer than type 1 and 2 infections. Human Parainfluenza Virus type 4, one of the rubulaviruses, has a V protein with a highly conserved cysteine-rich domain characteristic of paramyxovirus V proteins. It is the only paramyxovirus that cannot evade the IFN-induced antiviral responses.

REFERENCES

- De Vaux Saint Cyr, C. and Howe, C. 1966. Immunochemical study of Parainfluenza Virus (type 2) in amnion cells. J. Bacteriol. 91: 1911-1916.
- Howe, C., Milliken, S.A. and Newcomb, E.W. 1970. Growth studies of Parainfluenza Virus (type 2). Arch. Gesamte Virusforsch. 29: 50-62.
- Ito, Y., Tsurudome, M., Bando, H., Komada, H. and Nishio, M. 1989. Incomplete replication of human Parainfluenza Virus type 2 in mouse L929 cells. Arch. Virol. 108: 137-144.
- Jantausch, B.A., Wiedermann, B.L. and Jeffries, B. 1995. Parainfluenza Virus type 2 meningitis and parotitis in an 11-year-old child. South. Med. J. 88: 230-231.
- Nishio, M., Tsurudome, M., Kawano, M., Watanabe, N., Ohgimoto, S., Ito, M., Komada, H. and Ito, Y. 1996. Interaction between nucleocapsid protein (NP) and phosphoprotein (P) of human Parainfluenza Virus type 2: one of the two NP binding sites on P is essential for granule formation. J. Gen. Virol. 77: 2457-2463.
- Skiadopoulos, M.H., Vogel, L., Riggs, J.M., Surman, S.R., Collins, P.L. and Murphy, B.R. 2002. The genome length of human Parainfluenza Virus type 2 follows the rule of six, and recombinant viruses recovered from non-polyhexameric-length antigenomic cDNAs contain a biased distribution of correcting mutations. J. Virol. 77: 270-279.
- García-García, M.L., Aguilar Ruiz, J., Echeverría Mayo, J.E., Calvo Rey, C., Pinto Fuentes, I., Ordobás Gabin, M., Roman Riechmann, E. and Pérez Breña, P. 2002. Parainfluenza Virus type 4 infections. An. Esp. Pediatr. 57: 116-120.
- 8. Nishio, M., Tsurudome, M., Ito, M. and Ito, Y. 2005. Human parainfluenza virus to antiviral effect. J. Virol. 79: 14756-14768.

SOURCE

Parainfluenza Virus type 1 (1226) is a mouse monoclonal antibody raised against Parainfluenza Virus type 1.

PRODUCT

Each vial contains 100 μg lgG_{2a} in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Parainfluenza Virus type 1 (1226) is recommended for detection of Parainfluenza Virus type 1 by immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

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

PROTOCOLS

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

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