

Mumps NP (7B10): sc-57921

BACKGROUND

Mumps (epidemic parotitis) is a human viral disease that causes fever and painful swelling of the salivary glands, specifically the parotid gland. Mumps symptoms are usually not as severe in children as in teenagers and adults. Developments such as infertility or subfertility can occur, but are rare. The most common preventative measure against Mumps is immunization with a Mumps vaccine. Before the introduction of a vaccine, Mumps was a common childhood disease worldwide; it is still a significant health threat in the third world. The disease is caused by a negative-sense single-stranded RNA paramyxovirus, spread by saliva droplets or subsequent contact with objects contaminated with infected saliva. Virions are enveloped with fusion and attachment proteins emerging as spines on the virion surface. The incubation period for Mumps is 15-24 days, with a median of 19 days before symptoms occur, which reflects its practicality as an epidemic inducing disease. The nucleoprotein of the Mumps virus, also known as a nucleocapsid, is the basic architecture of the virus, comprised of a core of nucleic acid captured in a protein coat. Specific antigens expressed on Mumps nucleoproteins may aid in the identification of this virus.

REFERENCES

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2006. Notice to readers: updated recommendations of the Advisory Committee on Immunization Practices (ACIP) for the control and elimination of Mumps. *MMWR Morb. Mortal. Wkly. Rep.* 55: 629-630.
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SOURCE

Mumps NP (7B10) is a mouse monoclonal antibody raised against recombinant Mumps NP from the Gloucester strain (Glouc 1/UK96).

PRODUCT

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

APPLICATIONS

Mumps NP (7B10) is recommended for detection of both native and recombinant nucleoprotein of Mumps virus origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000); non cross-reactive with measles nucleoprotein.

Molecular Weight of Mumps NP: 58 kDa.

SELECT PRODUCT CITATIONS

- Morfopoulou, S., Mee, E.T., Connaughton, S.M., Brown, J.R., Gilmour, K., Chong, W.K., Duprex, W.P., Ferguson, D., Hubank, M., Hutchinson, C., Kaliakatsos, M., McQuaid, S., Paine, S., Plagnol, V., Ruis, C., Virasami, A., Zhan, H., Jacques, T.S., Schepelmann, S., Qasim, W. and Breuer, J. 2017. Deep sequencing reveals persistence of cell-associated mumps vaccine virus in chronic encephalitis. *Acta Neuropathol.* 133: 139-147.

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.