SANTA CRUZ BIOTECHNOLOGY, INC.

Poliovirus Type 1 (295-17): sc-57983



BACKGROUND

Poliomyelitis (polio), also referred to as infantile paralysis, is an infectious disease caused by a virus that is transmitted via the fecal-oral route. It may proceed to the blood stream and into the central nervous system causing muscle weakness and sometimes paralysis. The polio virus is a small RNA picorna-enterovirus that primarily infects the gastroentestinal associated lymphoid tissue (GALT). Mortality because of the polio virus, though very rare, is usually due to respiratory failure by paralysis of the intercostal muscles and diaphragm. Three seperate types of this virus exist: Type 1, Type 2 and Type 3.

REFERENCES

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- Lagos, R., et al. 1998. Clinical acceptability and immunogenicity of a pentavalent parenteral combination vaccine containing diphtheria, tetanus, acellular pertussis, inactivated poliomyelitis and *Haemophilus influenzae* type b conjugate antigens in two-, four- and six-month-old Chilean infants. Pediatr. Infect. Dis. J. 17: 294-304.
- 3. Sutter, R.W., et al. 2000. Trial of a supplemental dose of four poliovirus vaccines. N. Engl. J. Med. 343: 767-773.
- Sunnerhagen, K.S. and Grimby, G. 2001. Muscular effects in late polio. Acta Physiol. Scand. 71: 335-340.
- Schoub, B.D., et al. 2001. Seroprevalence to polio in personnel at a virology institute. J. Infect. 43: 128-131.
- Martín, J., et al. 2003. Characterization of formaldehyde-inactivated poliovirus preparations made from live-attenuated strains. J. Gen. Virol. 84: 1781-1788.
- Tichmann-Schumann, I., et al. 2005. Immunogenicity and reactogenicity of four doses of diphtheria-tetanus-three-component acellular pertussishepatitis B-inactivated poliovirus-*Haemophilus influenzae* type b vaccine co-administered with 7-valent pneumococcal conjugate vaccine. Pediatr. Infect. Dis. J. 24: 70-77.
- Roberts, L. 2006. Infectious disease. Polio experts strive to understand a puzzling outbreak. Science 312: 1581.
- Falleiros Carvalho, L.H. and Weckx, L.Y. 2006. Universal use of inactivated polio vaccine. J. Pediatr. 82: S75-S82.

SOURCE

Poliovirus Type 1 (295-17) is a mouse monoclonal antibody raised against inactivated Poliovirus Type 1.

PRODUCT

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

RESEARCH USE

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

APPLICATIONS

Poliovirus Type 1 (295-17) is recommended for detection of Poliovirus Type 1 by solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

SELECT PRODUCT CITATIONS

 Espinosa, A.C., et al. 2012. Quantifying the reduction in potential health risks by determining the sensitivity of poliovirus type 1 chat strain and rotavirus SA-11 to electron beam irradiation of iceberg lettuce and spinach. Appl. Environ. Microbiol. 78: 988-993.

STORAGE

Store at 4° C, **D0 NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

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