ALPHA DIAGNOSTIC INTERNATIONAL

Product Specification Sheet

Poliomyelitis Virus 1-3 Antibodies and Conjugates

Cat. # POLV12-M Mouse Monoclonal Anti-Poliomyelitis Virus 1-3 IgG **SIZE**: 100 ul

Poliomyelitis, often called polio or infantile paralysis, is an acute viral infectious disease spread from person to person, primarily via the fecal-oral route. Although around 90% of polio infections cause no symptoms at all, affected individuals can exhibit a range of symptoms if the virus enters the blood stream. Spinal polio is the most common form, characterized by asymmetric paralysis that most often involves the legs. Bulbar polio leads to weakness of muscles innervated by cranial nerves. Bulbospinal polio is a combination of bulbar and spinal paralysis.

The term poliomyelitis is used to identify the disease caused by any of the three serotypes of poliovirus. Type 1 (Brunhilde): often with severe symptoms Type 2 (Lansing): with milder symptoms Type 3 (Leon): rare, but with severe symptoms. Two basic patterns of polio infection are described: a minor illness which does not involve the central nervous system (CNS), sometimes called abortive poliomyelitis, and a major illness involving the CNS, which may be paralytic or non-paralytic. A laboratory diagnosis is usually made based on recovery of poliovirus from a stool sample or a swab of the pharynx. Antibodies to poliovirus can be diagnostic, and are generally detected in the blood of infected patients early in the course of infection. Analysis of the patient's cerebrospinal fluid (CSF), which is collected by a lumbar puncture ("spinal tap"), reveals an increased number of white blood cells (primarily lymphocytes) and a mildly elevated protein level. Detection of virus in the CSF is diagnostic of paralytic polio, but rarely occurs.

Source of Antigen and Antibodies

Antigen	Pool of purified polio virus 1-3
Ab Host/type	Mouse, monoclonal IgG1 and IgG2a from three clones for poliovirus 1-3 purified from mouse ascites
2-Ab	**Goat Anti-mouse IgG-HRP conjugate** Cat # 40320 (AP, biotin, FITC conjugates also available)
-ve	Cat # 20008-1, Mouse (non-immune) Serum IgG, purified, suitable for ELISA, Western, IHC as –ve control

Recommended Usage

IFA: 1:50:1:200 dilution

Specificity & Cross-reactivity

Antibodies react with Polio viruses types 1-3. Recognized the P1 protein of polioviruses 1-3 (sabin strain).

Related items available from ADI

Recombinant Poliovirus 1, VP1 protein (Sabin) and antibodies

Catalog#	ProdDescription
970-100-PHG	Human Anti-Poliomyelitis Virus 1-3 IgG ELISA
970-120-PMG	Mouse Anti-Poliomyelitis Virus 1-3 IgG ELISA
970-130-PRG	Rabbit Anti-Poliomyelitis Virus 1-3 IgG ELISA
970-140-PRM	Rabbit Anti-Poliomyelitis Virus 1-3 IgM ELISA
970-150-PMG	Monkey Anti-Polio Virus 1-3 IgG ELISA Kit,
POLV11-S	Anti-Poliomyelitis Virus 1-3 antiserum
POLV12-M	Mouse monoclonal Anti-Polio Virus 1-3 IgG,
POLV13-A	Anti-Poliomyelitis Virus 1-3 IgG
POLV13-BTN	Anti-Polio Virus 1-3 IgG-Biotin Conjugate
POLV13-FITC	Anti-Polio Virus 1-3 IgG-FITC Conjugate
POLV13-HRP	Anti-Polio Virus 1-3 IgG-HRP Conjugate

POLV12-M 110823A

Alpha Diagnostic Intl Inc., 6203 Woodlake Center Dr, San Antonio, TX 78244, USA; **Email**: service@4adi.com
☎ (800) 786-5777; (210) 561-9515; **Fax**: (210) 561-9544; **Web Site**: www.4adi.com