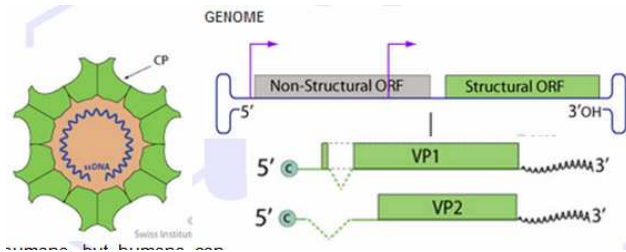


Product Specification Sheet

**Mouse Parvovirus Capsid protein 2 (MPV-VP2) Antibodies and Controls**

<input type="checkbox"/> MPV21-MNC	Mouse Anti- Mouse Parvovirus Capsid protein 2 (MPV-VP2) antibody negative control serum	1 ml
<input type="checkbox"/> MPV21-MPC	Mouse Anti- Mouse Parvovirus Capsid protein 2 (MPV-VP2) antibody antibody negative control serum	1 ml
<input type="checkbox"/> MPV22-RNC	Rat Anti- Mouse Parvovirus Capsid protein 2 (MPV-VP2) antibody negative control serum	1 ml
<input type="checkbox"/> MPV22-RPC	Rat Anti- Mouse Parvovirus Capsid protein 2 (MPV-VP2) antibody antibody negative control serum	1 ml

Animals, just like humans, are susceptible to various bacterial and viral infections. Animals are used widely in biomedical research. Laboratory animal infections may compromise the health of the animals and ultimately the research data derived from them. Microbial infections alter not only the animal behavior but also the biological responses. Apart from the use of whole animals for experimentations, numerous animal cell lines and proteins are also derived from animals and used in biomedical research. So there is great potential for the diseases to spread very quickly.



Parvovirus casually applied to all the viruses in the Parvoviridae taxonomic family and also the taxonomic name of the Parvovirus genus within the Parvoviridae family. Parvoviruses (from Latin parvus meaning small) are typically linear, non-segmented single-stranded DNA viruses, with an average genome size of 5Kb. Parvoviruses tend to be specific about the taxon of animal they will infect. No members of the genus Parvovirus are currently known to infect humans, but humans can be infected by viruses within three other genera from the family Parvoviridae, including the one popularly known by the common name Parvovirus B19. The viral capsid of a parvovirus is made up of two or three proteins, known as **VP1-3** that form an icosahedral structure that is resistant to acids, bases, solvents and temperature up to 50°C. Structural protein (NS1-2) are conserved and involved in transcription and virus replication. Capsid proteins (VP1-3) exhibit heterogeneity among different parvoviruses. Parvovirus diagnosis is by serology and ELISA. MPV is most pathogenic for haematopoietic cells than **mouse parvoviruses (MPVs)**: **Species: Minute virus of mouse (MVM) or mice minute virus (MMV), Kilham rat virus (KRV), Rat H-1 virus (Toolan's virus), mouse parvovirus (MPV), hamster (HaPV) and rat parvovirus (RPV-1a).** **Natural hosts:** Vertebrates. **Transmission:** Respiratory, oral droplets of fecal oral-route. **Geography:** Worldwide.

**Storage**

**Short-term:** unopened, undiluted vials for less than a week at 40C.

**Long-term:** at -20C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

**Stability:** 6-12 months at -20oC or below.

**Shipping:** 40C for solutions and room temp for powder.

**Source of Antibodies**

Pooled Rat serum (Sprague-Dawley, adult, mixed sex) or mouse (Balb/c, adult, mixed sex) containing antibodies to Sev as tested by ADI ELISA (#AE-300500-1). The positive serum tested positive with A450 values of >2.0. The negative serum produced A450 values of >0.3. Control sera are provide in PBS, pH 7.5 containing 0.1% proclin-300 (preservative) in liquid or lyophilized in the same buffer. Store liquid at 4oC for up to 3 months at 4oC or frozen in suitable size aliquots. Store powder at -20oC in. Reconstitute the powder in 1 ml water.

Recommended as positive and negative controls for anti-MPV-VP2 IgG by ELISA. The controls may or may not be antibody positive against the whole MPV-VP2 or related viruses.

Use undiluted in 50-100 ul per well or dilute as necessary depending upon the sensitivity of the detection.

**References:** Ball-Goodrich LJ (1994) J. Virol. 68, 6476-6486; Besselsen DG (2000) Compl med. 50, 498-502; Livingston RS (2002) Clin Diagn. Lab. Immunol. 9, 1025-1031; Wan CH (2002) J. Gen. Virol. 83, 2075-2083; Shek WR (1998) Lab Anim. Sci. 48, 294-297

\*This product is for In vitro research use only.

**Related material available from ADI**

Catalog#	ProdDescription
MPV21-C	Recombinant (E. coli, his-tag, ~60 Kda) Parvovirus (MPV) Capsid Protein 2 (VP2) control for Western blot
MPV21-MNC	Mouse Anti-Parvovirus (MPV) Capsid Protein 2 (VP2) antibody negative control serum
MPV21-MPC	Mouse Anti-Parvovirus (MPV) Capsid Protein 2 (VP2) antibody positive control serum
MPV21-R-10	Recombinant (E. coli, his-tag, ~60 Kda) Parvovirus (MPV) Capsid Protein 2 (VP2), full length (>95% pure)
MPV21-S	Rabbit Anti-Parvovirus (MPV) Capsid Protein 2 (VP2) antiserum
MPV22-RNC	Rat Anti-Parvovirus (MPV) Capsid Protein 2 (VP2) antibody negative control serum
MPV22-RPC	Rat Anti-Parvovirus (MPV) Capsid Protein 2 (VP2) antibody positive control serum

MPV21-MNC 121127A