

Product Specification Sheet

Porcine Parvovirus (PPV-NS1) antibodies and controls

- Cat.#** PPVNS11-S Rabbit Anti-Swine/Porcine Parvovirus (PPV) NS1 IgG antiserum **SIZE:** 100 ul
- Cat.#** PPVNS11-C Recombinant Purified Porcine Parvovirus (PPV) NS1 control for western blot **SIZE:** 100 ul

Porcine Parvovirus is also known as PPV. It is in Group II, a single stranded DNA, from the family Parvoviridae and its genus is Parvovirus. PPV is one of the most common causes of infectious infertility. It is a very strong virus which multiplies itself in the pig's intestine without giving the pig any symptoms. PPV is a very difficult virus to remove from the pig's environment. PPV has unique characteristics of being resistant to most disinfectants and being able to survive living outside of its host for a long period of time. PPV will show symptoms in pregnant pigs only if the pregnancy is for the first time during the first 55 days.

Its structure is composed of a viral capsid made of 2-3 proteins known as VP1-3 which forms an icosahedral structure. This specific structure makes the virus resistant to pH, solvents and temperature as high as 50 °C. There is a single stranded DNA genome inside the capsid with 120-250 nucleotides that are essential for viral genome replication. PPV causes a reproductive disease in pigs called SMEDI which stands for stillbirth, mummification, embryonic death and infertility. The disease is mostly spread by ingestion of contaminated food and water, infected feces and sometimes sexual contact and contact with aborted tissue.

Source of Antigen and Antibodies

Antigen	Recombinant purified Parvovirus-NS1 (~76.4 kDa; 660 aa)
Ab Host/type	Rabbit, polyclonal, unpurified antiserum (cat # PPVNS11-S)
2-ab	Goat Anti-rabbit IgG-HRP cat # 20320 (AP, biotin, FITC conjugates also available)
-ve control IgG	# 20009-1, Rabbit (non-immune) IgG, purified, suitable for ELISA, Western, IHC as -ve control

Porcine parvovirus (PPV-NS1) is expressed in *E.coli* and purified using proprietary technique (>95%, ~76.4 kDa). Purified recombinant Porcine Parvovirus for Western blot +ve control (#PPVNS11-C) is supplied in SDS-PAGE sample buffer. Store at -20oC in suitable size aliquots. SDS may crystallize in cold conditions. It should redissolve by warming before taking it from the stock. It should be heated once prior to loading on gels.

Form & Storage of Antibodies/Peptide Control

Antiserum (unpurified)

- 100 ul solution lyophilized

Supplied 0.05% azide, **Reconstitute** powder in 100 ul PBS

Storage

Short-term: unopened, undiluted liquid vials at -20°C and powder at 4oC or -20oC.

Long-term: at -20°C 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: 4oC for solutions and room temp for powder

Recommended Usage

ELISA, Western blot; Cellular Activity

Specificity & Cross-reactivity

Porcine parvovirus-NS1 (PPV, 660-aa) is conserved in Porcine Parvovirus (100%), rat Parvovirus (72%), Canine/ Feline Parvovirus (67%). Antibody cross-reactivity with these species has not been tested. PPVNS11-C western blot protein control is available for control studies.

General References: Krakowka S (2000), Vet Pathol. 37 (3): 254–263; Opiressnig T (2004), Vet Microbiol. 98 (3–4): 209–220; Mengeling WL (1991). J Vet Diagn Invest. 3 (1): 33–35.

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

Related material available from ADI

Catalog# Description

AE-200170-01N	Swine/Porcine Parvovirus (PPV) IgG negative control serum
AE-200170-02P	Swine/Porcine Parvovirus (PPV) IgG positive control serum
PPVNS11-C	Recombinant (E.coli) Swine/Porcine Parvovirus (PPV) NS1 protein control for western blot
PPVNS11-R-10	Recombinant (E.coli) Swine/Porcine Parvovirus (PPV) NS1 protein
PPVNS11-S	Rabbit Anti-Swine/Porcine Parvovirus (PPV) NS1 IgG antiserum
PPVVP21-C	Recombinant (E.coli) Swine/Porcine Parvovirus (PPV) VP2 protein control for western blot
PPVVP21-R-10	Recombinant (E.coli) Swine/Porcine Parvovirus (PPV) VP2 protein
PPVVP21-S	Rabbit Anti-Swine/Porcine Parvovirus (PPV) VP2 IgG antiserum
RV-400860-2	Swine/Porcine Parvovirus (PPV) Antibody ELISA kit, 2x96 tests

PPVNS11-S-antiserum

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