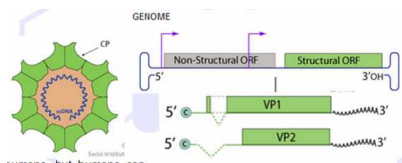


Product Specification Sheet

**Anti-Rat Toolan's H1 (THV) capsid protein VP2 IgG Controls**

<input type="checkbox"/> <b>Cat #</b> THVP11-RNC	Rat Anti-Toolan's VP2 protein (THV-VP2 ) antibody negative control serum	<b>SIZE:</b> 1 ml
<input type="checkbox"/> <b>Cat #</b> THVP11-RPC	Rat Anti-Toolan's VP2 protein (THV-VP2 ) antibody positive control serum	<b>SIZE:</b> 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. Animals or animal-derived products are transported from one part of the world to another in a matter of days. So there is great potential for the diseases to spread very quickly. Many infections are asymptomatic and without any overt clinical symptoms. Detection of microbial infections has relied largely on serological screening and presence of microbial antigens or antibodies.



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. 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.

Rat Toolan's H-1 (H-1/or THV) is a member of parvovirus family and closely related to the minute virus of mice (MVM). The clinical signs associated with a natural THV infection lead to cell death.

**Source of Antigen and Antibodies**

Pooled Rat serum (Sprague-Dawley, adult, mixed sex) containing antibodies to THV-VP2 as tested by ADI ELISA (#AE-310210-1). The positive serum (#THVP11-RPC) tested positive with A450 values of >2.0. The negative serum (#THVP11-RNC) 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-THV VP2 protein IgG by ELISA. The controls may or may not be antibody positive against the whole THV or other parvoviruses.

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

**References:** Cziepluch, C (2000) J. Virol. 74, 4807, 4815; Chen YQ (1986) Cancer Res. 46, 3574-3579; Faisst SSR (1995) J. Virol. 69, 4538-4543; Singer II (1978) Virol. 65, 4054; Rayet B (1998) J. Virol. 72, 8893-8903;

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

**Related material available from ADI**

- Rat Toolan's virus antibody ELISA kit
- Recombinant THV-VP2 protein and antibodies
- Rat anti-THV IgG positive and negative controls.

THVP11\_RNC 121120A

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