



Anti-Fish Nervous Necrosis Virus Particles, Rabbit-Polyclonal Antibody

Catalog No. PG-10002

Antigen species: Fish NNV

Host species: Rabbit

Quantity: 100µg **Applications tested:** ELISA, Western Blot, VN

Reactivity: Fish NNV

Form: Protein A affinity purified antibody

Target description

Viral nervous necrosis (VNN) is a worldwide disease among marine fishes. Fish nervous necrosis virus (NNV) causes high mortality and considerable economic damage to the aquaculture industry. In Taiwan, VNN disease was first identified in 2 species of hatchery-reared grouper, *Epinephelus fuscogutatus* and *E. akaaya* in 1994. Since then, increasing mortalities have occurred among groupers *Epinephelus spp.*, and also among European eels *Anguilla anguilla L.*, yellow-wax pompano *Trachinotus falcatus*, firespot snapper *Lutjanus erythropterus B.*, barramundi *Lates calcarifer*, cobias *Rachycentron canadum*, humpback groupers *Cromileptes altivelis* and Chinese catfish *Parasilurus asotus*.

Antigen

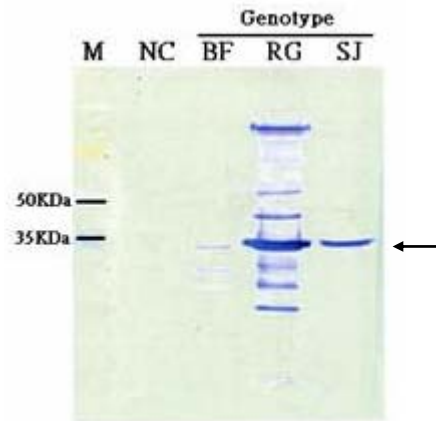
This polyclonal antibody was raised by immunizing rabbit with purified grouper nervous necrosis virus (NNV) particles.

Application

The antibody titer is 1:5,500 dilution for ELISA and 1:5,000 dilution for WB. It has not been tested in the other applications. However, for the first testing, we recommend 1/10,000 dilution for ELISA, 1/5,000 dilution for Western blot analysis (WB) of recombinant protein, 1/4,000 dilution for tissue extracts or cell lysates, 1/100 dilution for immunohistochemistry (IHC) staining on frozen cryosections or paraffin embedded sections.

Related Products

1. Anti-NNV coat protein rabbit pAb (GB-10063)
2. Anti-NNV coat protein rabbit pAb (GB-10064)



Western blot test:

The 10-20 ng of NNV particles can be detected positively in 1:5,500 dilution of the antibody with the ELISA. Moreover, The coat protein of NNV will be positively detected in the location of M.W. of 40~45 kDa by Western Blot analysis with 1:5,000 dilution.

Storage

It is supplied as protein A affinity purified antibody in lyophilized powder. Reconstituted the powder with 100 microliter sterile water will restore to the original concentration 1mg/mL. Store at 4°C for short-term application. For long-term storage, aliquot and store at -20°C.

References

1. Chi SC, Shieh JR, Lin SJ. Genetic and antigenic analysis of betanodaviruses isolated from aquatic organisms in Taiwan. Dis Aquat Organ. 2003 Aug 4;55(3):221-8.
2. Chi SC, Lin SC, Su HM, Hu WW. Temperature effect on nervous necrosis virus infection in grouper cell line and in grouper larvae. Virus Res. 1999 Sep;63(1-2):107-14.