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Anti-Coat Protein of Fish Nervous Necrosis virus, Rabbit-Polyclonal Antibody

Catalog No. GB-10063 **Quantity:** 250μl **Applications tested:** ELISA
Antigen species: Fish NNV **Reactivity:** Fish NNV
Host species: Rabbit **Form:** Antiserum

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 Lutaanus 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 a synthetic peptide containing amino acids on central domain of coat protein of NNV (aa 150-210) of grouper NNV.

Application

The antibody titer is more than 80K for ELISA. It has not been tested in the other applications. However, for the first testing, we recommend 1/5,000 dilution for ELISA, 1/1000 dilution for Western blot analysis (WB) of recombinant protein, 1/400 dilution for tissue extracts or cell lysates, 1/100 dilution for immunohistochemistry (IHC) staining on frozen cryosections, 1/50 dilution for IHC staining on paraffin embedded sections.

Related Products

1. Anti-NNV coat protein rabbit pAb (GB-10064)
2. Anti-NNV particles rabbit pAb (PG-10002)

Ab dilution	Pre-bleed	Anti-serum
1:0.1K	0.106	0.878
1:1K	0.066	0.760
1:10K	0.064	0.271
1:100K	0.063	0.093
Titer		~83 K

ELISA Protocol

Antigen is coated on EIA strips at 1μg per well. Add 200μl of blocking buffer and then wash wells with PBST buffer. Antiserum GB-10063 is diluted in series as 10^2~10^5 folds and added in separate wells. Incubate antibody for 1hr. Wash unbound antibodies and add anti-rabbit IgG-HRP conjugate. Wash the plate and add substrate to develop color for 5 min. Read absorbance (ABS) at 650 nm. Amount of color is directly proportional to the amount of antibodies. Antibody titer is defined as >0.1 of ABS of antiserum minus pre-bleed serum.

Storage

It is supplied as lyophilized serum. Redissolve the lyophilized powder with 250 microliter sterile water will restore the original condition. 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.