



Anti-NNV RdRp, Rabbit-Polyclonal Antibody

Catalog No. PG-10019 **Quantity:** 100 µg **Applications tested:** Western Blot, IFA
Antigen species: NNV RdRp **Reactivity:** NNV RdRp
Host species: Rabbit **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. NNV is a non-enveloped icosahedral virus with a diameter of 20–34 nm, and its viral genome contains two-segmented, single-stranded, positive-sense RNAs without a poly A tail. RNA1 encodes the RNA-dependent RNA polymerase (RdRp), and RNA2 encodes the capsid protein. NNV RdRp localized on the mitochondria to synthesize NNV RNA. The NNV isolates in Taiwan belong to the RGNNV genotype.

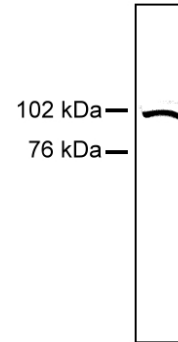
Antigen

This polyclonal antibody was raised by immunizing rabbit with the purified recombinant protein corresponding to amino acids 869–982 of RGNNV RdRp.

Application

The antibody titer is 1:500 dilution for Western blot (WB) and 1:100 dilution for immunofluorescent assay (IFA).

Related Products



Western blot test

The NNV RdRp in the cell lysate of NNV-infected GF-1 cells is positively detected in the location of M.W. of 102~76 kDa by Western Blot analysis with 1:500 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 1 mg/mL. Store at 4°C for short-term application. For long-term storage, aliquot and store at -20°C.

References

1. Wu YC, Lu YF, Chi SC. Anti-viral mechanism of barramundi Mx against betanodavirus involves the inhibition of viral RNA synthesis through the interference of RdRp. *Fish Shellfish Immunol* 2010; 28, 467-75.
2. Wu YC, Tsai PY, Chan JC, Chi SC. Endogenous grouper and barramundi Mx proteins facilitated the clearance of betanodavirus RNA-dependent RNA polymerase. *Dev Comp Immunol*. 2016; 59, 110-20.