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Anti-VP664 of Shrimp white spot syndrome virus, Rabbit-Polyclonal Antibody

Catalog No. GB-10372 **Quantity:** 100μg **Applications tested:** ELISA
Antigen species: Shrimp WSSV **Reactivity:** Shrimp WSSV
Host species: Rabbit **Form:** Peptide affinity purified antibody

Target description

White spot syndrome virus (WSSV) is one of the most devastating shrimp pathogens, and it has caused serious damage to the worldwide shrimp culture industry. Although this virus can infect several crustacean species, including shrimp, crab, and crayfish. VP664, is one of the viral structural proteins. The existence of the corresponding 18-kb transcript was confirmed by sequencing analysis of reverse transcription-PCR products, which also showed that *vp664* was intron-less.

Antigen

This polyclonal antibody was raised by immunizing rabbit with a synthetic peptide located on the putative domain of WSSV VP664.

Application

The antibody titer is more than 1000K for ELISA. It has not been tested in the other applications. However, for the first testing, we recommend 1/10,000 dilution for ELISA, 1/2,000 dilution for Western blot analysis (WB) of recombinant protein, 1/1,600 dilution for tissue extracts or cell lysates, 1/100 dilution for immuno-histochemistry (IHC) staining on frozen cryosections, 1/100 dilution for IHC staining on paraffin embedded sections.

Related Products

1. Anti-VP28 of WSSV pAb (GB-10006)
2. Anti-VP28 of WSSV pAb (GB-10355)
3. Anti-VP26 of WSSV pAb (GB-10382)

Ab dilution	Pre-bleed	Purified-Ab
1:0.1K	0.997	2.431
1:1K	0.325	2.208
1:10K	0.097	2.043
1:100K	0.065	1.627
1:1,000K	0.064	0.599
Titer		>1000K

ELISA Procedure

Antigen is coated on EIA strips at 1μg per well. Add 200μl of blocking buffer and then wash wells with PBST buffer. Pre-bleed serum and peptide specific purified antibody GB-10372 is diluted in series as 10^2~10^6 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 peptide affinity purified antibody in lyophilized powder. Redissolve the powder with 100 microliter sterile water will restore to the original concentration 1 mg/ml (1×PBS). Store at 4°C for short-term application. For long-term storage, aliquot and store at -20°C.

References

1. Leu JH, Tsai JM, Wang HC, Wang AH, Wang CH, Kou GH, Lo CF. The unique stacked rings in the nucleocapsid of the white spot syndrome virus virion are formed by the major structural protein VP664, the largest viral structural protein ever found. J Virol. Jan;79(1):140-9 (2005).

2. Li HX, Meng XL, Xu JP, Lu W, Wang J. Protection of crayfish, Cambarus clarkii, from white spot syndrome virus by polyclonal antibodies against a viral envelope fusion protein. J Fish Dis. May;28(5):285-91 (2005).