



Anti-Coat Protein of Shrimp Taura Syndrome Virus, Rabbit-Polyclonal Antibody

Catalog No. GB-10360

Antigen species: Shrimp TSV

Host species: Rabbit

Quantity: 250 μ l

Reactivity: Shrimp TSV

Form: Antiserum

Applications tested: ELISA

Target description

Taura syndrome virus (TSV) is a highly virulent pathogen of *Litopenaeus vannamei*, *Metapenaeus ensis*, and *Penaeus monodo*. It has affected shrimp aquaculture throughout the world, and threatened wild populations. The coat protein of TSV is its structural protein, which will be a major antigen for diagnosis.

Ab dilution	Pre-bleed	Anti-serum
1:1K	0.068	1.982
1:10K	0.061	0.986
1:100K	0.055	0.271
1:1,000K	0.044	0.062
Titer		~500 K

ELISA Protocol

Antigen

This polyclonal antibody was raised by immunizing rabbit with a synthetic peptide located within the N-terminal domain (25-100) of shrimp TSV putative viral coat protein 2(VP2).

Application

The antibody titer is more than 100K for ELISA. It has not been tested in the other applications. However, for the first testing, we recommend 1/10,000 dilution for ELISA, 1/1000~1/5000 dilution for Western blot analysis (WB) of recombinant protein, 1/500~1/4000 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-VP28 of WSSV pAb (GB- 10006)
2. Anti-VP28 of WSSV pAb (GB- 10355)
3. Anti-VP664 (ORF167) of WSSV pAb (GB- 10372)
4. Anti-VP26 of WSSV pAb (GB- 10382)

Antigen is coated on EIA strips at 1 μ g per well. Add 200 μ l of blocking buffer and then wash wells with PBST buffer. Antiserum GB-10360 is diluted in series as 10^3 ~ 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 is positive at >2 folds of ABS of control (Pre-immune 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. Lotz JM, Flowers AM, Breland V. A model of Taura syndrome virus (TSV) epidemics in *Litopenaeus vannamei*. J Invertebr Pathol. 2003 Jun;83(2):168-76
2. Chang YS, Peng SE, Yu HT, Liu FC, Wang CH, Lo CF, Kou GH. Genetic and phenotypic variations of isolates of shrimp Taura syndrome virus found in *Penaeus monodon* and *Metapenaeus ensis* in Taiwan. J Gen Virol. 2004 Oct;85(Pt 10):2963-8.