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Anti-barramundi Mx protein, Rabbit-Polyclonal Antibody

Catalog No. PG-10016 **Quantity:** 100μg **Applications tested:** Western Blot, IFA
Antigen species: Barramundi Mx protein **Reactivity:** Mx of barramundi and grouper
Host species: Rabbit **Form:** Protein A affinity purified antibody

Target description

Mx protein is one of the IFN-inducible proteins that exhibit antiviral activity against viruses. The GTP-binding domain at the N-terminal of Mx protein is vital for antiviral activity, and the leucine-zipper motif at the C-terminal can interact with viral proteins and determines antiviral specificity. Barramundi Mx proteins have been reported to exhibit antiviral activity against nervous necrosis virus (NNV), infectious pancreatic necrosis virus (IPNV) and red seabream iridovirus (RSIV).

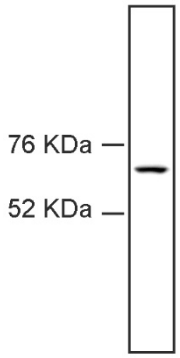
Antigen

This polyclonal antibody was raised by immunizing rabbit with the purified recombinant protein corresponding to amino acids 208-322 of barramundi Mx protein.

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 barramundi Mx protein in the cell lysate of NNV-infected cBB cells is positively detected in the location of M.W. of 76~52 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 mecha nism of barramundi Mx against betano davirus involves the inhibition of viral R NA synthesis through the interference of RdRp. Fish Shellfish Immunol 2010; 28, 467-75.
2. Wu YC, Kai YH, Chi SC. Persistently bet anodavirus-infected barramundi (*Lates calcarifer*) exhibit resistances to red se a bream iridovirus infection. Dev Comp Immunol 2013; 41, 666-74
3. Wu YC, Tsai PY, Chan JC, Chi SC. Endo genous grouper and barramundi Mx pr oteins facilitated the clearance of betan odavirus RNA-dependent RNA polymera se. Dev Comp Immunol. 2016; 59, 110 -20.