

Catalog Number	FM-130BY-5
Product Name	Anti-Infectious Pancreatic Necrosis Virus (IPNV) VP1 protein. IgG fraction monoclonal antibody (clone 1A1/E9)
Temperature	-20°C
Unit	100µg
Category	Infectious Agents
Subcategory	Fish Pathogens
Description	Mouse monoclonal antibody IgG fraction (clone 1A1/E9) obtained by immunizing mice with purified IPN virus. The IgG fraction was purified using Protein G-Sepharose.
Isotype	IgG2a
Storage	Store at -20°C.
Stability	Stable at least one year at -20°C. Avoid repeated freezing and thawing.
Biological Activity	This antibody can be used in ELISA (1:5,000 dilution), Western blot (1:1,000 dilution), and indirect immunofluorescence (1:500). It recognizes a 94 kDa protein corresponding to the viral RNA-dependent RNA polymerase (VP1). IPNV is a single-shelled, non-enveloped virus that belongs to the family Birnaviridae. Its genome comprises a bisegmented double-stranded RNA, the segment B encodes VP1 and the segment A yields a polyprotein, pVP2-VP4-VP3 and a small protein (VP5) dispensable for viral replication. The polyprotein is autocatalytically cleaved by the endoprotease VP4 to release the structural proteins pVP2 and VP3. IPNV is responsible for infectious pancreatic necrosis, a contagious fish disease characterized by severe damage to the internal organs and tissues with a high mortality among salmonids.
Formulation	Solution at 1.0 mg/mL in PBS.
References	Roberts, R. J. & Pearson MD. (2005) J. Fish Dis. 28, 383-390. Rodriguez Saint-Jean S. et al. (2003) 62, 113-165. Duncan, R. et al. (1991) Virology 181, 541-552.

This product is for research use ONLY in laboratory animals and in vitro testing. NOT for diagnostic or human use.

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