

Anti-Infectious Pancreatic Necrosis Virus (IPNV) VP2 protein.

IgG fraction monoclonal antibody (clone 1B3/E10)

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| Catalog Number | FM-130CY-5 |
| Product Name | Anti-Infectious Pancreatic Necrosis Virus (IPNV) VP2 protein. IgG fraction monoclonal antibody (clone 1B3/E10) |
| Temperature | -20°C |
| Unit | 100µg |
| Availability | Available |
| Category | Infectious Agents |
| Subcategory | Fish Pathogens |
| Description | Mouse monoclonal antibody IgG fraction (clone 1B3/E10) obtained by immunizing mice with purified IPN virus. The IgG fraction was purified using Protein G-Sepharose. |
| Isotype | IgG2a |
| Mol Weight | N/A |
| Purity | N/A |
| Storage | Store at -20°C. |
| Stability | Stable at least one year at -20°C. Avoid repeated freezing and thawing. |
| Biological Activity | This antibody is able to neutralize IPN virus and can be used in ELISA (1:5,000 dilution), Western blot (1:1,000 dilution), and indirect immunofluorescence (1:500). It recognizes a 54 kDa protein corresponding to VP2 protein. 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 (62 kDa) and VP3. pVP2 is processed during virus maturation into VP2 (54 kDa) constituting the outer capsid component. 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. Galloux, M. et al. (2004) J. Gen. Virol. 85, 2231-2236. Rodriguez Saint-Jean S. et al. (2003) 62, 113-165. Duncan, R. et al. (1991) Virology 181, 541-552. |

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