Anti-mouse PD-1 Monoclonal Antibody (Clone 29F.1A12.1)

Catalog No.: PA007163.r2a | **Isotype:** Rat IgG2a, kappa | **In Vivo Grade**

Anti-mouse PD-1 Monoclonal Antibody (Clone 29F.1A12.1), Rat IgG2a Kappa, In Vivo Grade Recombinant. Anti-mouse PD1 monoclonal antibodies, which share the same variable region sequences with the rat anti-mouse PD-1 / CD279 monoclonal antibody (clone: 29F.1A12), are produced from mammalian cells and good for in vitro and in vivo studies.

Product Specifications

Catalog No.	PA007163.r2a
Product Name	In Vivo Grade Recombinant Anti-mouse PD-1 Monoclonal Antibody (Clone 29F.1A12.1), Rat IgG2a Kappa
Clone & Isotype	29F.1A12.1 | Rat IgG2a, kappa
Synonyms	Programmed cell death protein 1, PD-1, CD279, cluster of differentiation 279, 29F.1A12
Applications	Western blot (WB), immunohistochemistry (IHC), Flow Cytometry (FC), and various in vitro and in vivo functional assays.
Immunogen	The original rat hybridoma (clone name: 29F.1A12) was generated by immunizing rats with the PD-1 cDNA followed by the PD-1-Ig fusion protein.
Purity & Endotoxin	**>95%** by SDS-PAGE under reducing conditions | **< 1 EU/mg** (LAL method)
Formulation	0.2 μm filtered solution of 1x PBS.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 1 month from date of receipt, 2 to 8°C as supplied. 3 months from date of receipt, -20°C to -70°C as supplied. Shipped with ice pack.

Biological Description & Research Applications

The rat anti-mouse PD-1 monoclonal antibody 29F.1A12 (rat IgG2a kappa) reacts with the mouse PD-1 protein (programmed death-1 or CD279) encoded by the mouse Pdcd1 gene, a member of the CD28 family of the Ig superfamily. PD-1 has two ligands, PD-L1 and PD-L2, both of which belong to the B7 family. It has been shown that in mouse models of melanoma, tumor growth can be transiently arrested via treatment with the anti-mouse PD-1(CD279) and anti-mouse PD-L1 antibodies(CD274) which block the interaction between the PD-L1 protein and its receptor PD-1 protein. The 29F.1A12 monoclonal antibody blocks the binding of both the mouse PD-L1 protein and the mouse PD-L2 protein to the mouse PD-1 protein. Syd Labs's recombinant 29F.1A12 antibodies have a part (variable regions) or complete amino acid sequences of the rat anti-mouse PD-1 monoclonal antibody (hybridoma clone name or number: 29F.1A12).

Ordering & Technical Support

For custom volume ordering or inquiries, please visit the product webpage or contact our support team:

- **Product Webpage:** https://www.ushelf.com/anti-mouse-pd-1-monoclonal-antibody-pa007163-r2a/
- **Order Phone:** 1-617-401-8149 | **Fax:** 1-617-606-5022
- **Support Email:** message@sydlabs.com