

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

Catalog No.: PA007163.m2cLA | Isotype: Mouse IgG2c, kappa | In Vivo Grade

Syd Labs In Vivo Grade Recombinant Anti-mouse PD-1 Mouse IgG2c-L234A L235A P329G (LALAPG) Kappa Monoclonal Antibody (Clone 29F.1A12.1) (PA007163.m2cLA), binding mouse PD1. For FC, IHC, neutralization, functional assays, bioanalytical PK and ADA assays, and those assays for studying biological pathways affected by PD-1.

Product Specifications

Catalog No.	PA007163.m2cLA
Product Name	In Vivo Grade Recombinant Anti-mouse PD-1 Monoclonal Antibody (Clone 29F.1A12.1), Mouse IgG2c-L234A L235A P329G (LALAPG) Kappa
Clone & Isotype	29F.1A12.1 Mouse IgG2c, 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 and anti-mouse PD-L1 antibodies 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. Our 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-29f-1a12-1-pa007163-m2cla/>
- **Order Phone:** 1-617-401-8149 | **Fax:** 1-617-606-5022
- **Support Email:** message@sydlabs.com