Murinized Anti-mouse PD-1 Monoclonal Antibody (RMP1-14.1) | PA007162.mm1DA

Catalog No.: PA007162.mm1DA | **Isotype:** Mouse IgG1-D265A, Kappa | **In Vivo Grade**

In Vivo Grade Recombinant Murinized Anti-mouse PD-1 Mouse IgG1-D265A Kappa Monoclonal Antibody (Clone RMP1-14.1). Recombinant mouse anti-mouse PD 1 / CD279 monoclonal antibodies, whose variable region sequences are murined from the rat anti-mouse PD-1 monoclonal antibody (clone number: RMP1-14), are produced from mammalian cells. The recombinant rat and chimeric mouse versions of the RMP1-14 antibody are also available.

Product Specifications

Catalog No.	PA007162.mm1DA
Product Name	In Vivo Grade Recombinant Murinized Anti-mouse PD-1 Monoclonal Antibody (Clone RMP1-14.1), Mouse IgG1-D265A Kappa
Clone & Isotype	RMP1-14.1 | Mouse IgG1-D265A, Kappa
Synonyms	Mouse Anti-Mouse PD 1 Monoclonal Antibodies, Murinized Anti-Mouse PD 1 Monoclonal Antibodies
Applications	immunohistochemistry (IHC), Flow Cytometry (FC), and various in vitro and in vivo functional assays.
Immunogen	The original rat hybridoma (clone name: RMP1-14) was generated by immunizing Sprague Dawley rats with mouse PD-1-transfected BHK cells and using a P3U1 myeloma as the fusion partner.
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 RMP1-14 (rat IgG2a kappa) reacts with the mouse PD-1 protein (CD279 or programmed death-1) 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 antibody and the anti-mouse PD L1 antibody which block the interaction between the PD-L1 protein and its receptor PD-1 protein. The RMP1-14 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 RMP1-14 antibodies have a part (variable regions) or complete amino acid sequences of the rat anti-mouse PD-1 antibody (hybridoma clone name or number: RMP1-14). The murinized anti-mouse PD-1 recombinant antibody has not only the constant regions of the mouse IgG antibodies but also the murinized variable regions.

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/murinized-anti-mouse-pd-1-monoclonal-antibody-pa007162-mm1da/
- **Order Phone:** 1-617-401-8149 | **Fax:** 1-617-606-5022
- **Support Email:** message@sydlabs.com