

Recombinant Anti-Mouse PD-1 (CD279) Antibody (Clone RMP1-14.1)

Catalog No.: PA007162.m1DA | Isotype: Mouse IgG1-D265A, kappa (Fc Silent) | In Vivo Grade

Recombinant mouse anti-mouse PD-1 / CD279 monoclonal antibody (Clone RMP1-14.1), engineered with a Mouse IgG1 D265A (Fc-Silent) domain to eliminate ADCC/CDC effector functions during *in vivo* blocking studies. Variable regions are derived from the classic rat anti-mouse PD-1 clone (RMP1-14) and expressed in mammalian cells.

PRODUCT SPECIFICATIONS

Catalog No.	PA007162.m1DA
Product Name	In Vivo Grade Recombinant Anti-mouse PD-1 Monoclonal Antibody (Clone RMP1-14.1), Mouse IgG1-D265A Kappa
Clone & Isotype	RMP1-14.1 Mouse IgG1, kappa (D265A mutation, Fc Silent)
Synonyms	Mouse Anti-Mouse PD 1 Monoclonal Antibodies, Murinized Anti-Mouse PD 1 Monoclonal Antibodies
Applications	Immunohistochemistry (IHC), Flow Cytometry (FC), <i>In Vitro</i> & <i>In Vivo</i> Functional Assays (Blocking/Neutralization)
Purity & Endotoxin	>95% by SDS-PAGE < 1.0 EU/mg (LAL method, Ultra-low endotoxin)
Formulation	0.2 µM filtered solution in 1x PBS, preservative-free and carrier-free.
Stability & Storage	Store at 2°C to 8°C for up to 1 month. For long term, store at -20°C to -70°C. Avoid repeated freeze-thaw cycles. Shipped with ice packs.
Control Reagents	Recombinant rat IgG2a isotype control or Mouse IgG1-D265A control available.

BIOLOGICAL DESCRIPTION & FC-SILENT FEATURE

The D265A mutation in the mouse IgG1 Fc region completely abolishes binding to Fcγ receptors (FcγRI, FcγRIIB, FcγRIII, FcγRIV) and C1q, ensuring an Fc-silent profile. This prevents unwanted antibody-dependent cellular cytotoxicity (ADCC) and complement activation, making it ideal for *in vivo* T-cell activation and immune checkpoint blockade studies without depleting target cells.

ORDERING & TECHNICAL SUPPORT

For batch-specific Certificate of Analysis (COA), SDS-PAGE validation data, or custom volume ordering (>100 mg), please visit the product webpage or contact our support team:

- Product Webpage: <https://www.ushelf.com/anti-mouse-pd-1-monoclonal-antibody-pa007162-m1da/>
- Order Phone: 1-617-401-8149 | Fax: 1-617-606-5019
- Support Email: message@sydlabs.com