

Recombinant Anti-Mouse PD-1 (CD279) Antibody (Clone RMP1-14.1, Rat IgG2a)

Catalog No.: PA007162.r2a | Isotype: Rat IgG2a, kappa | In Vivo Grade

Recombinant anti-mouse PD-1 / CD279 monoclonal antibody (Clone RMP1-14.1, Rat IgG2a Kappa) produced in mammalian cells, sharing the same variable and constant region sequences with the classic rat anti-mouse PD-1 antibody (clone RMP1-14). Displays high affinity (< 2 nM) to mouse PD-1, making it the most popular clone for *in vivo* blockade in MC38 and CT26 syngeneic tumor models.

PRODUCT SPECIFICATIONS

Catalog No.	PA007162.r2a
Product Name	In Vivo Grade Recombinant Anti-mouse PD-1 Monoclonal Antibody (Clone RMP1-14.1), Rat IgG2a Kappa
Clone & Isotype	RMP1-14.1 Rat IgG2a, kappa
Synonyms	Programmed Cell Death Protein 1, CD279 antibody
Applications	Immunohistochemistry (IHC), Flow Cytometry (FC), <i>In Vitro</i> & <i>In Vivo</i> Functional Assays
Immunogen	Generated by immunizing Sprague Dawley rats with mouse PD-1-transfected BHK cells (hybridoma clone RMP1-14).
Purity & Endotoxin	>95% by SDS-PAGE < 1.0 EU/mg (LAL method, 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 for up to 3 months. Avoid repeated freeze-thaw cycles. Shipped with ice packs.
Control Reagents	Recombinant rat IgG2a isotype control (PA007143) or chimeric mouse IgG1-D265A versions available.

BIOLOGICAL DESCRIPTION & RESEARCH APPLICATIONS

The RMP1-14 clone specifically binds to mouse PD-1 (CD279) and blocks its interaction with ligands PD-L1 and PD-L2. Engineered as a recombinant antibody produced in mammalian systems, it ensures high purity, consistent batch quality, and ultra-low endotoxin levels required for animal study reproducibility, particularly in syngeneic tumor model evaluations (MC38, CT26).

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/recombinant-anti-mouse-pd-1-mab-cd279-pa007162-r2a/>
- Order Phone: 1-617-401-8149 | Fax: 1-617-606-5022
- Support Email: message@sydlabs.com