

Anti-Mouse PD-1 (RMP1-14.1) In Vivo Antibody | PA007162.m2aLA

Catalog No.: PA007162.m2aLA | Isotype: Mouse IgG2a, Kappa | In Vivo Grade

PRODUCT DESCRIPTION

The recombinant anti-mouse PD-1 (CD279) monoclonal antibody (Clone RMP1-14, Catalog No. PA007162.m2aLA) is a high-purity, in vivo-grade reagent engineered for precise blockade of the programmed death-1 (PD-1) immune checkpoint in mouse models. This non-depleting, Fc-silenced antibody features a mouse IgG2a isotype with L234A/L235A/P329G (LALAPG) mutations, eliminating Fcγ receptor binding and effector functions such as ADCC and CDC. As a result, it provides pure blocking-only activity without depleting PD-1-expressing cells (e.g., exhausted T cells), making it ideal for studies requiring clean PD-1/PD-L1/PD-L2 pathway inhibition.

Produced in mammalian cells for high specificity, consistency, and low endotoxin levels (<1 EU/mg, typical for in vivo-grade products), this antibody enhances anti-tumor immune responses by reversing T cell exhaustion and promoting effector functions in preclinical cancer immunotherapy research. It is widely applied in syngeneic tumor models (e.g., MC38, B16, CT26) on strains like C57BL/6, often in combination with anti-CTLA-4, radiotherapy, or chemotherapy.

PRODUCT SPECIFICATIONS

Catalog No.	PA007162.m2aLA
Product Name	In Vivo Grade Recombinant Anti-mouse PD-1 Monoclonal Antibody (Clone RMP1-14.1), Mouse IgG2a-L234A L235A P329G (LALAPG) Kappa
Supplier Name	Syd Labs, Inc.
Brand Name	Syd Labs
Synonyms	Mouse Anti-Mouse PD 1 Monoclonal Antibodies, Murinized Anti-Mouse PD 1 Monoclonal Antibodies
Summary	The In Vivo Grade Recombinant Anti-mouse PD-1 Mouse IgG2a-L234A L235A P329G (LALAPG) Kappa Monoclonal Antibody (Clone RMP1-14.1) was produced in mammalian cells.
Clone	RMP1-14.1, the same variable region sequences as the rat anti-mouse PD-1 monoclonal antibody (clone number: RMP1-14)
Isotype	mouse IgG2a, kappa
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 rats with mouse PD-1-transfected BHK cells.
Form Of Antibody	0.2 μM filtered solution of 1x PBS.
Endotoxin	Less than 1 EU/mg of protein as determined by LAL method.
Purity	>95% by SDS-PAGE under reducing conditions.
Shipping	The In Vivo Grade Recombinant Anti-mouse PD-1 Mouse IgG2a-L234A L235A P329G (LALAPG) Kappa Monoclonal Antibody (Clone RMP1-14.1) are shipped with ice pack. Upon