Anti-mouse PD-L1 Antibody for Flow Cytometry (Clone: 10F.9G2.1, Human IgG1 Fc Silent Kappa) | PA007506.h1Fs

Catalog No.: PA007506.h1Fs | **Isotype:** Human IgG1 Fc Silent Kappa | **Flow Cytometry / In Vivo Grade**

Recombinant anti-mouse PD-L1 monoclonal antibody (Clone 10F.9G2.1), engineered with a Human IgG1 Fc-Silent domain to eliminate ADCC/CDC and minimize non-specific Fc receptor binding during flow cytometry, immunohistochemistry, and in vivo blocking assays. Variable regions are derived from the classic rat anti-mouse PD-L1 clone 10F.9G2 and recombinantly expressed in mammalian cells.

Product Specifications

Catalog No.	PA007506.h1Fs
Product Name	Recombinant Anti-mouse PD-L1 Monoclonal Antibody (Clone: 10F.9G2.1), Human IgG1 Fc Silent Kappa
Synonyms	Programmed Cell Death Protein 1, PD-1, CD279, Cluster of Differentiation 279, RMP1-14
Clone & Isotype	10F.9G2.1 | Human IgG1 Fc Silent Kappa
Applications	Flow cytometry (FC), and Immunohistochemistry - Frozen (IHC-F).
Reactivity & Specificity	Mouse PD-L1 protein. The recombinant 10F.9G2.1 antibody for Flow Cytometry specifically binds to mouse PD-L1 protein.
Source / Host	The anti-mouse PD-L1 monoclonal antibody (clone: 10F.9G2.1) for Flow Cytometry was produced in mammalian cells.
Formulation & Conjugate	0.2 uM filtered solution, pH 7.4, containing 0.09% sodium azide. Non-conjugated.
Purity	**>95%** by SDS-PAGE under reducing conditions.
Shipping	The Recombinant Anti-mouse PD-L1 Monoclonal Antibody (Clone: 10F.9G2.1) for Flow Cytometry, Human IgG1 Fc Silent Kappa is shipped with ice pack. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, 2 to 8°C as supplied. Do not freeze it.

Biological Description & Background

Recombinant Human IgG1 Monoclonal Antibody with Fc silent mutation.

The rat anti-mouse PD-L1 monoclonal antibody 10F.9G2 (rat IgG2b kappa) reacts with the mouse PD-L1 protein (programmed death ligand-1, B7-H1 or CD274), a member of the B7 family of the Ig superfamily [cite: 62]. PD-1 has two ligands, PD-L1 and PD-L2 [cite: 62]. 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 [cite: 62]. The 10F.9G2 monoclonal antibody blocks the binding of the mouse PD-L1 protein to the mouse PD-1 protein [cite: 62].

Engineered with a Human IgG1 Fc Silent domain, clone 10F.9G2.1 eliminates ADCC/CDC effector functions and prevents non-specific Fc receptor binding, providing an optimal Fc-silent reagent for high-precision flow cytometry, immunohistochemistry, and in vivo blocking assays [cite: 61, 62]. Our recombinant 10F.9G2 antibodies have a part (variable regions) or complete amino acid sequences of the rat anti-mouse PD-L1 monoclonal antibody (hybridoma clone name or number: 10F.9G2) [cite: 62].

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-l1-monoclonal-antibody-pa007506-h1fs/
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