Anti-mouse CD28 Antibody for Flow Cytometry (Clone: PV-1, Human IgG1 Fc Silent Kappa) | PA007490.h1Fs

Catalog No.: PA007490.h1Fs | **Isotype:** Human IgG1 Fc Silent Kappa | **Flow Cytometry / In Vivo Grade**

Recombinant anti-mouse CD28 monoclonal antibody (Clone PV-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 T cell costimulation studies. Variable regions are derived from the classic PV-1 clone and recombinantly expressed in mammalian cells. Recombinant Human IgG1 isotype controls are available. For human T cell research, Syd Labs OKT3 antibodies are also available.

Product Specifications

Catalog No.	PA007490.h1Fs
Product Name	Recombinant Anti-mouse CD28 Monoclonal Antibody (Clone: PV-1), Human IgG1 Fc Silent Kappa
Synonyms	T-cell-specific surface glycoprotein CD28; TP44
Clone & Isotype	PV-1 | Human IgG1 Fc Silent Kappa
Applications	Flow cytometry (FC), and Immunohistochemistry - Frozen (IHC-F).
Reactivity & Specificity	Mouse CD28. The recombinant PV-1 antibody for Flow Cytometry specifically binds to mouse CD28.
Source / Host	The anti-mouse CD28 monoclonal antibody (clone: PV-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 CD28 Monoclonal Antibody (Clone: PV-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

PA007490.h1Fs: Recombinant Anti-mouse CD28 Monoclonal Antibody (Clone: PV-1) for Flow Cytometry, Human IgG1 Fc Silent Kappa.

Recombinant Human IgG1 Monoclonal Antibody with Fc silent mutation.

The anti-mouse CD28 monoclonal antibody clone PV-1 reacts with mouse CD28, a 44 kD homodimeric glycoprotein expressed on T cells (including thymocytes and mature T cell subsets). CD28 is an essential costimulatory receptor that interacts with CD80 (B7-1) and CD86 (B7-2) on antigen-presenting cells to promote T cell proliferation, cytokine production, and survival.

Engineered with a Human IgG1 Fc Silent domain, clone PV-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 T cell costimulation studies. For human T cell research, Syd Labs OKT3 antibodies are also available.

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-cd28-monoclonal-antibody-pa007490-h1fs/
- **Order Phone:** 1-617-401-8149 | **Fax:** 1-617-606-5022
- **Support Email:** message@sydlabs.com