Anti-mouse CD19 Antibody for Flow Cytometry (Clone: 1D3, Human IgG1 Fc Silent Kappa) | PA007364.h1Fs

Catalog No.: PA007364.h1Fs | **Isotype:** Human IgG1 Fc Silent Kappa | **Flow Cytometry / In Vivo Grade**

Recombinant anti-mouse CD19 monoclonal antibody (Clone 1D3), engineered with a Human IgG1 Fc-Silent domain to eliminate ADCC/CDC and minimize non-specific Fc receptor binding during flow cytometry, immunohistochemistry, and B cell research. Variable regions are derived from the classic rat anti-mouse CD19 clone 1D3 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.	PA007364.h1Fs
Product Name	Recombinant Anti-mouse CD19 Monoclonal Antibody (Clone: 1D3), Human IgG1 Fc Silent Kappa
Synonyms	B-lymphocyte antigen CD19, Cluster of Differentiation 19, B-Lymphocyte Surface Antigen B4, T-Cell Surface Antigen Leu-12, CVID3
Clone & Isotype	1D3 | Human IgG1 Fc Silent Kappa
Applications	Flow cytometry (FC), and Immunohistochemistry - Frozen (IHC-F).
Reactivity & Specificity	Mouse CD19. The recombinant 1D3 antibody for Flow Cytometry specifically binds to the mouse CD19 protein.
Source / Host	The recombinant anti-mouse CD19 monoclonal antibody (clone: 1D3) 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 and HPLC.
Shipping	The Recombinant Anti-mouse CD19 Monoclonal Antibody (Clone: 1D3) 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

PA007364.h1Fs: Recombinant Anti-mouse CD19 Monoclonal Antibody (Clone: 1D3) for Flow Cytometry, Human IgG1 Fc Silent Kappa.

Recombinant Human IgG1 Monoclonal Antibody with Fc silent mutation.

The 1D3 antibody binds to the mouse CD19 protein, a transmembrane protein expressed in all B lineage cells including mouse plasma cells. CD19 plays two major roles in mouse B cells: it acts as an adaptor protein to recruit cytoplasmic signaling proteins to the membrane, and works within the CD19/CD21 complex to decrease the threshold for B cell receptor signaling pathways. CD19 is a biomarker for B lymphocyte development, lymphoma diagnosis and can be utilized as a target for leukemia immunotherapies.

Engineered with a Human IgG1 Fc Silent domain, clone 1D3 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 B cell research. 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-cd19-monoclonal-antibody-pa007364-h1fs/
- **Order Phone:** 1-617-401-8149 | **Fax:** 1-617-606-5022
- **Support Email:** message@sydlabs.com