Anti-mouse CD370 Antibody for Flow Cytometry (Clone: 10B4, Human IgG1 Fc Silent Kappa) | PA007493.h1Fs

Catalog No.: PA007493.h1Fs | **Isotype:** Human IgG1 Fc Silent Kappa | **Flow Cytometry / In Vivo Grade**

Recombinant anti-mouse CD370 monoclonal antibody (Clone 10B4), engineered with a Human IgG1 Fc-Silent domain to eliminate ADCC/CDC and minimize non-specific Fc receptor binding during flow cytometry, immunohistochemistry, and dendritic cell research. Variable regions are derived from the classic rat anti-mouse CD370 clone 10B4 and recombinantly expressed in mammalian cells. Recombinant rat IgG2a and human IgG1 isotype controls are available.

Product Specifications

Catalog No.	PA007493.h1Fs
Product Name	Recombinant Anti-mouse CD370 Monoclonal Antibody (Clone: 10B4), Human IgG1 Fc Silent Kappa
Synonyms	CLC9A, Clec9a, DNGR-1, C-type lectin domain family 9 member A
Clone & Isotype	10B4 | Human IgG1 Fc Silent Kappa
Applications	Flow cytometry (FC), and Immunohistochemistry - Frozen (IHC-F).
Reactivity & Specificity	Mouse CD370 protein. The recombinant 10B4 antibody for Flow Cytometry specifically binds to mouse CD370 protein.
Source / Host	The anti-mouse CD370 monoclonal antibody (clone: 10B4) 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 CD370 Monoclonal Antibody (Clone: 10B4) 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 anti-mouse CD370 monoclonal antibody clone 10B4 reacts with mouse CD370, also known as Clec9a (C-type lectin domain family 9 member A) or DNGR-1. CD370 is a transmembrane C-type lectin receptor predominantly expressed on conventional dendritic cells (cDC1, CD8a+ DCs) and plasmacytoid dendritic cells. It functions as an endocytic receptor that senses necrotic cell debris by binding exposed F-actin, mediating cross-presentation of cell-associated antigens to CD8+ T cells.

Engineered with a Human IgG1 Fc Silent domain, clone 10B4 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 dendritic cell research.

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-cd370-monoclonal-antibody-pa007493-h1fs/
- **Order Phone:** 1-617-401-8149 | **Fax:** 1-617-606-5022
- **Support Email:** message@sydlabs.com