Anti-mouse CD370 Antibody for Flow Cytometry (Clone: 10B4, Rat IgG2a Kappa) | PA007493.r2a

Catalog No.: PA007493.r2a | **Isotype:** Rat IgG2a Kappa | **Flow Cytometry / In Vivo Grade**

Recombinant rat anti-mouse CD370 monoclonal antibody (Clone 10B4), engineered with a Rat IgG2a constant region for 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.r2a
Product Name	Recombinant Anti-mouse CD370 Monoclonal Antibody (Clone: 10B4), Rat IgG2a Kappa
Synonyms	CLC9A, Clec9a, DNGR-1, C-type lectin domain family 9 member A
Clone & Isotype	10B4 | Rat IgG2a 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, Rat IgG2a 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 Rat IgG2a Monoclonal Antibody.

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.

Our recombinant 10B4 antibodies feature the variable regions of the classic 10B4 clone expressed on a rat IgG2a Kappa backbone, providing exceptional batch-to-batch consistency and high signal-to-noise ratio for flow cytometry and immunohistochemistry studies.

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-r2a/
- **Order Phone:** 1-617-401-8149 | **Fax:** 1-617-606-5022
- **Support Email:** message@sydlabs.com