Anti-mouse TIGIT Antibody for Flow Cytometry (Clone: 10A7, Mouse IgG2a Kappa) | PA007509.m2a

Catalog No.: PA007509.m2a | **Isotype:** Mouse IgG2a Kappa | **Flow Cytometry / In Vivo Grade**

Recombinant mouse anti-mouse TIGIT monoclonal antibody (Clone 10A7), engineered with a Mouse IgG2a constant region for flow cytometry, immunofluorescence, and in vivo depletion/blocking assays. Variable regions are derived from the classic anti-mouse TIGIT clone 10A7 and recombinantly expressed in mammalian cells.

Product Specifications

Catalog No.	PA007509.m2a
Product Name	Recombinant Anti-mouse TIGIT Monoclonal Antibody (Clone: 10A7), Mouse IgG2a Kappa
Synonyms	VSIG9, VSTM3, WUCAM, T-cell immunoreceptor with Ig and ITIM domains, T cell immunoreceptor with Ig and ITIM domains
Clone & Isotype	10A7 | Mouse IgG2a Kappa
Applications	Flow cytometry (FC), and Immunohistochemistry - Frozen (IHC-F).
Reactivity & Specificity	Mouse TIGIT protein. The recombinant 10A7 antibody for Flow Cytometry specifically binds to mouse TIGIT protein.
Source / Host	The anti-mouse TIGIT monoclonal antibody (clone: 10A7) 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 TIGIT Monoclonal Antibody (Clone: 10A7) for Flow Cytometry, Mouse 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 Mouse IgG2a Kappa Monoclonal Antibody.

The 10A7 antibody binds to the TIGIT protein (WUCAM, Vstm3 or VSIG9), a novel immune checkpoint receptor with inhibitory function [cite: 63]. TIGIT is expressed on T cells and natural killer (NK) cells, and several human cancers, including melanoma, NSCLC, and colorectal cancer [cite: 63]. Similar to PD-1, the TIGIT receptor limits antitumor immune response in cancer [cite: 63].

Expressed recombinantly with a Mouse IgG2a Kappa framework in mammalian cells, clone 10A7 specifically targets mouse TIGIT [cite: 62, 63]. It is widely used in flow cytometry, immunohistochemistry, and functional immune checkpoint research to evaluate T cell exhaustion, NK cell activity, and combined immunotherapy strategies [cite: 62, 63].

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-tigit-monoclonal-antibody-pa007509-m2a/
- **Order Phone:** 1-617-401-8149 | **Fax:** 1-617-606-5022
- **Support Email:** message@sydlabs.com