Anti-mouse MHC Class I (H-2Kb) Antibody (AF6-88.5.3, Mouse IgG2a Kappa) | PA007846.m2a

Catalog No.: PA007846.m2a | **Isotype:** Mouse IgG2a Kappa | **Flow Cytometry / In Vivo Grade**

Recombinant mouse anti-mouse MHC Class I (H-2Kb) monoclonal antibody (Clone AF6-88.5), engineered with a Mouse IgG2a Fc domain for target binding, antigen detection, and cell depletion studies. Variable regions are derived from the classic mouse anti-mouse MHC Class I (H-2Kb) clone AF6-88.5 and recombinantly expressed in mammalian cells.

Product Specifications

Catalog No.	PA007846.m2a
Product Name	Recombinant Anti-mouse MHC Class I (H-2Kb) Monoclonal Antibody (Clone: AF6-88.5.3), Mouse IgG2a Kappa
Clone & Isotype	AF6-88.5.3 | Mouse IgG2a Kappa
Applications	In Vivo Blocking/Depletion, Flow cytometry (FC), Functional Assays, and Immunohistochemistry - Frozen (IHC-F).
Reactivity & Specificity	Mouse MHC Class I (H-2Kb). The recombinant AF6-88.5.3 antibody specifically binds to mouse MHC Class I (H-2Kb).
Source / Host	The anti-mouse MHC Class I (H-2Kb) monoclonal antibody (clone: AF6-88.5.3) was produced in mammalian cells.
Formulation & Conjugate	0.2 uM filtered solution, pH 7.4, no stabilizers or preservatives. Non-conjugated.
Purity & Endotoxin	**>95%** by SDS-PAGE under reducing conditions and HPLC. | **< 1.0 EU/mg** (Ultra-low, In Vivo Grade).
Shipping	The recombinant anti-mouse MHC Class I (H-2Kb) monoclonal antibody of clone AF6-88.5.3 is shipped with ice pack. Upon receipt, store it immediately at the recommended temperature.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month from date of receipt, 2 to 8°C as supplied.

Biological Description & Background

Recombinant Mouse IgG2a Kappa Monoclonal Antibody.

Major Histocompatibility Complex (MHC) Class I H-2Kb is a primary cell-surface glycoprotein expressed on virtually all nucleated cells in mice of the b haplotype (e.g., C57BL/6, C57BL/10, C3H.SW). It plays a crucial role in antigen presentation to CD8+ cytotoxic T lymphocytes and interacts with inhibitory and activating NK cell receptors.

Monoclonal antibody AF6-88.5.3 specifically recognizes the H-2Kb MHC Class I alloantigen. Expressed recombinantly in mammalian cells with an in vivo grade Mouse IgG2a framework, this antibody provides superior consistency and performance in flow cytometry, cell depletion, blocking, and immunopathology studies in C57BL/6 and related mouse strains.

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-mhc-class-i-h-2kb-monoclonal-antibody-pa007846-m2a/
- **Order Phone:** 1-617-401-8149 | **Fax:** 1-617-606-5019
- **Support Email:** message@sydlabs.com