Anti-mouse CD8a Antibody for Flow Cytometry (Clone: YTS 169.4, Human IgG1 Fc Silent Kappa) | PA007497.h1Fs

Catalog No.: PA007497.h1Fs | **Isotype:** Human IgG1 Fc Silent Kappa | **Flow Cytometry / In Vivo Grade**

Recombinant anti-mouse CD8a monoclonal antibody (Clone YTS 169.4), engineered with a Human IgG1 Fc-Silent domain to eliminate ADCC/CDC and minimize non-specific Fc receptor binding during flow cytometry, immunohistochemistry, and in vivo studies. Variable regions are derived from the classic rat anti-mouse CD8a clone YTS 169.4 and recombinantly expressed in mammalian cells.

Product Specifications

Catalog No.	PA007497.h1Fs
Product Name	Recombinant Anti-mouse CD8a Monoclonal Antibody (Clone: YTS 169.4), Human IgG1 Fc Silent Kappa
Synonyms	CD8 alpha, T-cell surface glycoprotein CD8 alpha chain, CD_antigen CD8a
Clone & Isotype	YTS 169.4 | Human IgG1 Fc Silent Kappa
Applications	Flow cytometry (FC), and Immunohistochemistry - Frozen (IHC-F).
Reactivity & Specificity	Mouse CD8a protein. The recombinant YTS 169.4 antibody for Flow Cytometry specifically binds to mouse CD8a protein.
Source / Host	The anti-mouse CD8a monoclonal antibody (clone: YTS 169.4) 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 CD8a Monoclonal Antibody (Clone: YTS 169.4) 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 rat anti-mouse CD8a monoclonal antibody YTS 169.4 (rat IgG2b kappa) reacts with the mouse CD8a protein (T-cell surface glycoprotein CD8 alpha chain) encoded by the mouse CD8A gene that encodes the CD8a chain of the dimeric CD8 protein. The mouse CD8 protein is primarily responsible for cell-mediated immune defense and T-cell development. CD8A has been widely reported as a potential prognosis and diagnostic marker for several diseases, such as inflammatory disorders and tumors. It was shown that the anti-mouse CD8a rat monoclonal antibody (clone number: YTS 169.4) can be used for depleting activity in vivo.

Engineered with a Human IgG1 Fc Silent domain, clone YTS 169.4 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 in vivo studies. Our recombinant YTS 169.4 antibodies have a part (variable regions) or complete amino acid sequences of the rat anti-mouse CD8a monoclonal antibody (hybridoma clone name or number: YTS 169.4).

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-cd8a-monoclonal-antibody-pa007497-h1fs/
- **Order Phone:** 1-617-401-8149 | **Fax:** 1-617-606-5022
- **Support Email:** message@sydlabs.com