

Anti-Mouse CD8a Monoclonal Antibody (Clone: YTS 105.18) | PA007381.r2b

Catalog No.: PA007381.r2b | Isotype: Rat IgG2b Kappa | In vivo Grade

Recombinant rat IgG2b isotype controls are available. Condition of sample preparation and optimal sample dilution should be determined experimentally by the investigator.

Product Specifications

Catalog No.	PA007381.r2b
Product Name	In vivo Grade Recombinant Anti-mouse CD8a Monoclonal Antibody, Rat IgG2b Kappa (Clone: YTS 105.18)
Clone & Isotype	YTS 105.18 Rat IgG2b kappa
Synonyms	CD8 alpha, T-cell surface glycoprotein CD8 alpha chain, CD_antigen CD8a
Applications	Western blot, immunohistochemistry (IHC), Flow Cytometry (FC), and in vivo CD8+ T cell depletion.
Immunogen	The in vivo grade recombinant anti-mouse CD8a rat IgG2b monoclonal antibody was produced in mammalian cells.
Purity & Endotoxin	>95% by SDS-PAGE under reducing conditions < 1 EU/mg (LAL method)
Formulation	0.2 µm filtered solution of 1x PBS.
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 & Research Applications

The rat anti-mouse CD8a monoclonal antibody YTS 105.18 (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. YTS 105.18 is a rat IgG2b anti-CD8a monoclonal antibody that does not deplete CD8+ T-cells in vivo and is widely used for the blockade of CD8+ T-cell activity in mice. Inoculation of mice with YTS 105.18 induces tolerance to xenograft transplantation and reduces insulin-dependent diabetes mellitus (IDDM) in NOD mice.

Some suppliers and researchers state that YTS 105.18 is a rat IgG2a monoclonal antibody. Its sequence of the heavy chain indicates that it is a rat IgG2b antibody.

Our recombinant YTS 105.18 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 105.18).

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-clone-yts-105-18-pa007381-r2b/>
- **Order Phone:** 1-617-401-8149 | **Fax:** 1-617-606-5022
- **Support Email:** message@sydlabs.com