

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects recombinant mouse CD8 alpha protein in Direct ELISA.
Source	Monoclonal Rat IgG _{2A} Clone # 1104516
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line, NS0-derived mouse CD8 Lys28-Tyr196 Accession # P01731
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Immunohistochemistry Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

CD8, also known as Ly-2, is a heterodimeric glycoprotein consisting of an α and β chain. It is expressed on cytolytic T cells and functions in conjunction with the T cell receptor in the recognition of MHC/peptide complexes. Mouse CD8 (containing an α/Ly-2 or α'/Lyt-2 chain) is an antigen co-receptor on the T cell surface which interacts with MHC I molecules on antigen presenting cells (1). CD8αβ heterodimer is expressed on a subpopulation of mature T cells (2, 3). CD8α, without CD8β, has been detected on subsets of γδ TCR-bearing T cells (4), intestinal intrathymic lymphocytes (5, 6) and dendritic cells (7, 8).

References:

1. Bierer, B.E. *et al.* (1989) *Annu. Rev. Immunol.* **7**:579.
2. Ledbetter, J.A. *et al.* (1980) *J. Exp. Med.* **152**:280.
3. Hayakawa, K. *et al.* (1994) *Science* **263**:1131.
4. MacDonald, H.R. *et al.* (1990) *Eur. J. Immunol.* **20**:927.
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6. Wang, J. and J.R. Klein (1994) *Science* **265**:1860.
7. Vermec, D. *et al.* (1992) *J. Exp. Med.* **176**:47.
8. Suss, G. and K. Shortman (1996) *J. Exp. Med.* **183**:1789.

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