

#### DESCRIPTION

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects recombinant mouse CD8 alpha protein in Direct ELISA.
<b>Source</b>	Monoclonal Rat IgG <sub>2A</sub> Clone # 1104516
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line, NS0-derived mouse CD8 Lys28-Tyr196 Accession # P01731
<b>Conjugate</b>	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
<b>Formulation</b>	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  $\alpha$  and  $\beta$  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  $\alpha$ /Ly-2 or  $\alpha$ '/Lyt-2 chain) is an antigen co-receptor on the T cell surface which interacts with MHC I molecules on antigen presenting cells (1). CD8 $\alpha\beta$  heterodimer is expressed on a subpopulation of mature T cells (2, 3). CD8 $\alpha$ , without CD8 $\beta$ , has been detected on subsets of  $\gamma\delta$  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.
5. Rocha, B. *et al.* (1992) *Immunol. Today* **13**:449.
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.

#### PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.