

## Product datasheet for **TA327655**

### CD8A Mouse Monoclonal Antibody [Clone ID: C8/144B]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	C8/144B
Applications:	IHC
Recommended Dilution:	IHC: 1:25 - 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1, kappa
Clonality:	Monoclonal
Formulation:	This antibody is supplied as cell culture supernatant diluted in tris buffered saline, pH 7.3-7.7, with 1% BSA and <0.1% sodium azide.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	CD8a molecule
Database Link:	<a href="#">NP_741969</a> <a href="#">Entrez Gene 925 Human</a> <a href="#">P01732</a>
Synonyms:	CD8; Leu2; MAL; p32



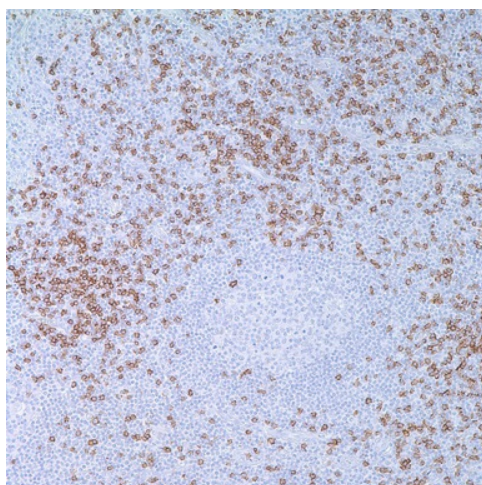
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**Note:** The CD8 (cluster of differentiation 8) antigen is a cell surface glycoprotein found on most cytotoxic T-lymphocytes that mediates efficient cell-cell interactions within the immune system. CD8 is a transmembrane glycoprotein that serves as a co-receptor for the T-cell receptor (TCR). TCR is a heterodimer composed of either  $\alpha$  and  $\beta$  or  $\gamma$  and  $\delta$  chains. CD3 chains and the CD4 or CD8 co-receptors are also required for efficient signal transduction through the TCR. The TCR is expressed on T-helper and cytotoxic T-cells that can be distinguished by their expression of CD4 and CD8 respectively. CD8 binds to a major histocompatibility complex (MHC) molecule, but is specific for the class I MHC protein. A primary function of CD8 is to facilitate antigen recognition by the TCR and to strengthen the avidity of the TCR-antigen interactions. The CD8 co-receptor is predominantly expressed on the surface of suppressor and cytotoxic T-cells at a low level by NK cells, large granular lymphocyte leukemia, and some T-ALL/T-LBL. For mature T-cells, CD4 and CD8 are mutually exclusive, so anti-CD8, generally used in conjunction with anti-CD4, is a useful marker for distinguishing helper/inducer T-lymphocytes, and most peripheral T-cell lymphomas (CD4+/CD8-). Anaplastic large cell lymphoma is usually CD4+ and CD8-, and in T-lymphoblastic lymphoma/leukemia, CD4 and CD8 are often co-expressed. CD8 is also found in littoral cell angioendothelioma of the spleen.

**Protein Families:** Adult stem cells, Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein, Transmembrane

**Protein Pathways:** Antigen processing and presentation, Cell adhesion molecules (CAMs), Hematopoietic cell lineage, Primary immunodeficiency, T cell receptor signaling pathway

### Product images:



Immunohistochemistry staining of Paraffin Tonsil tissue by CD8 antibody (dilution: 1:25 - 1:100; visualization of staining: Membranous)