

Product datasheet for CL008FX

Cd8a Rat Monoclonal Antibody [Clone ID: CT-CD8a]

Product data:

OriGene Technologies, Inc.

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Product Type:	Primary Antibodies
Clone Name:	CT-CD8a
Applications:	FC
Recommended Dilution:	Flow Cytometry Analysis (see Protocols).
Reactivity:	Mouse
Host:	Rat
lsotype:	lgG2a
Clonality:	Monoclonal
Immunogen:	Murine thymocytes
Specificity:	This anti-mouse CD8a antigen monoclonal antibody recognizes the mouse CD8 α chain. The α chain of CD8 associates with the CD8 β chain to form a CD8 α/β heterodimer that is expressed by the majority of thymocytes and by the MHC class I restricted subset of mature T cells1. Mouse CD8 α can also form a CD8 α/α chain homodimer on subsets of CD8 positive cells. For this reason antibodies specific for CD8 α rather than CD8 β are recommended for a rigorous delineation of CD8 positive cells.
Formulation:	PBS, 0.09% NaN3 and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml Label: FITC State: Liquid purified IgG
Concentration:	lot specific
Purification:	Protein G Chromatography
Conjugation:	FITC
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. This product is photosensitive and should be proteced from light.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD8 antigen, alpha chain



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	Cd8a Rat Monoclonal Antibody [Clone ID: CT-CD8a] – CL008FX
Database Link:	Entrez Gene 12525 Mouse P01731
Background:	The CD8 antigen is a cell surface glycoprotein found on most cytotoxic T lymphocytes that mediates efficient cell to cell interactions within the immune system. The CD8 antigen, acting as a coreceptor, and the T cell receptor on the T lymphocyte recognize antigen displayed by an antigen presenting cell (APC) in the context of class I MHC molecules. The functional coreceptor is either a homodimer composed of two alpha chains, or a heterodimer composed of one alpha and one beta chain. Both alpha and beta chains share significant homology to immunoglobulin variable light chains.
Synonyms:	CD8 alpha chain, CD8A, MAL
Note:	Protocol: FLOW CYTOMETRY ANALYSIS:
	 Method: 1. Prepare a cell suspension in media A. For cell preparations, deplete the red blood cell population with Lympholyte®-M cell separation medium. 2. Wash 2 times. 3. Resuspend the cells to a concentration of 2x10e7 cells/ml in media A. Add 50 µl of this suspension to each tube (each tube will then contain 1 x 10e6 cells, representing 1 test). 4. To each tube, add ~1.0 µg* of this Ab per 1x10e6 cells. 5. Vortex the tubes to ensure thorough mixing of antibody and cells. 6. Incubate the tubes for 30 minutes at 4°C. (It is recommended that the tubes are protected from light, since most fluorochromes are light sensitive.) 7. Wash 2 times at 4°C. 8. Resuspend the cell pellet in 50 µl ice cold media B. 9. Transfer to suitable tubes for flow cytometric analysis containing 15 µl of propidium iodide at 0.5 mg/ml in PBS. This stains dead cells by intercalating in DNA. Media: A. Phosphate buffered saline (pH 7.2) + 5% normal serum of host species + sodium azide (100 µl of 2M sodium azide in 100 mls). B. Phosphate buffered saline (pH 7.2) + 0.5% Bovine serum albumin + sodium azide (100 µl of 2M sodium azide in 100 mls).

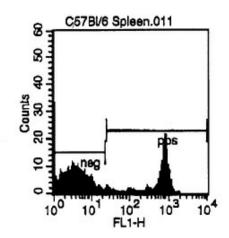
Results:

<u>Mouse Strain</u>: C57BL/6 <u>Cell Concentration</u>: 1x10e6 cells per test <u>Antibody Concentration Used</u>: 1.0 µg/10e6 cells <u>Isotypic Control</u>: FITC Rat IgG2a

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Product images:



Representative Histogram - Cell Source: CD3e Positive Spleen Cells Percentage of cells stained above control: 34.7%

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