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Product datasheet for CL010F

Cd8a Mouse Monoclonal Antibody [Clone ID: AD4(15)]

Product data:

Product Type:	Primary Antibodies
Clone Name:	AD4(15)
Applications:	FC
Recommended Dilution:	**Cytotoxicity assays.** **Flow Cytometry.**
Reactivity:	Mouse
Host:	Mouse
Isotype:	IgM
Clonality:	Monoclonal
Immunogen:	C57BL/6 Donor: B6-Ly-2a Fusion Partner: Myeloma line P3/X63Ag8
Specificity:	Anti-mouse CD8a (Ly 2.2) monoclonal antibody reacts with a subpopulation of T-lymphocytes from mouse strains expressing the Ly-2.2 phenotype but does not react with lymphocytes from strains expressing the Ly-2.1 phenotype.
Formulation:	PBS containing 0.02% Sodium Azide and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml. Label: FITC State: Liquid purified Ig fraction Label: Fluorescein isothiocyanate isomer 1
Purification:	Euglobin precipitation
Conjugation:	FITC
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD8 antigen, alpha chain

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Database Link: Entrez Gene 12525 Mouse
P01731

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 2.0-1.0 µg of this antibody per 10e6 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:

Tissue Distribution by Flow Cytometry Analysis:
Mouse Strain: BALB/c
Cell Concentration : 1x10e6 cells per tests
Antibody Concentration Used: 2.0 µg/10e6 cells
Isotypic Control: FITC Mouse IgM
Percentage of cells stained above control:
Spleen 10.2%
Thymus 66.0%

Product images: