

## Product datasheet for **CL039P**

### Thy1 Mouse Monoclonal Antibody [Clone ID: 5a-8]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	5a-8
Applications:	CT, FC, IHC
Recommended Dilution:	Immunohistochemistry on frozen sections. Cytotoxicity Analysis (see protocol).
Reactivity:	Mouse
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	CBA/J
Specificity:	This antibody reacts with all T lymphocytes from mouse strains expressing the Thy 1.2 phenotype (e.g. C57BL/6, C3H/He, DBA/2, CBA/J, BALB/c), but does not react with lymphocytes expressing the Thy 1.1 phenotype [e.g. AKR/J, B6.PL(74NS)].
Formulation:	PBS with 0.02% sodium azide as preservative. State: Purified State: Liquid IgG fraction. Label: APC conjugated.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C. <b>Do Not Freeze!</b> Avoid prolonged exposure to light.
Stability:	Shelf life: one year from despatch.
Database Link:	<a href="#">Entrez Gene 21838 Mouse P01831</a>



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- Background:** CD90 / Thy1 antigen is a GPI linked glycoprotein member of the Immunoglobulin superfamily. It is expressed on murine T cells, thymocytes, neural cells, cells of granulocytic lineage, early hematopoietic progenitors, fibroblasts, neurons and Kupffer's cells. Thy1 may play a role in cell to cell or cell to ligand interactions during synaptogenesis and other events in the brain. It is found in most mouse strains except AKR/J, A, Thy1.1 and B6.PL (74NS) expressing Thy1.1.
- Synonyms:** Thy-1, THY1, CDw90

Note: Protocol: **CYTOTOXICITY 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  $2 \times 10^7$  cells/ml in media A. Add 50  $\mu$ l of this suspension to each tube (each tube will then contain  $1 \times 10^6$  cells, representing 1 test).
4. To each tube, add 1.0  $\mu$ g of this Ab per  $10^6$  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 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  $\mu$ l ice cold media B.
9. Transfer to suitable tubes for flow cytometric analysis containing 15  $\mu$ l 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  $\mu$ l of 2M sodium azide in 100 mls).
- B. Phosphate buffered saline (pH 7.2) + 0.5% Bovine serum albumin + sodium azide (100  $\mu$ l of 2M sodium azide in 100 mls).

**Results-Tissue Distribution:**

Mouse Strain: BALB/c  
Cell Concentration :  $1 \times 10^6$  cells per test  
Antibody Concentration Used: 1.0  $\mu$ g /  $10^6$  cells  
Isotypic Control: APC Mouse IgG2b

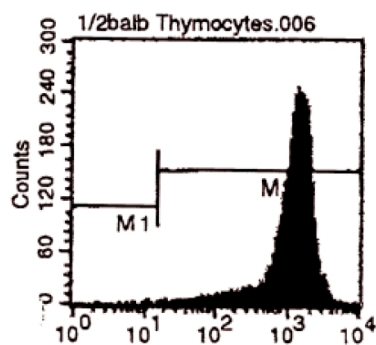
**Cell Source-Percentage of cells stained above control:**

Thymus: 99.8%

**Strain Distribution:**

Tissue: Thymus  
Cell Concentration:  $1 \times 10^6$  cells per test  
Antibody Concentration Used: 1.0  $\mu$ g/ $10^6$  cells  
Strains Tested: C57BL/6, C3H/He, CBA/J, BALB/c, ATL, AKR/J  
Positive: C57BL/6, C3H/He, CBA/J, BALB/c, ATL  
Negative: AKR

## Product images:



10 ug/ml staining CD19 in Human Skin by Immunohistochemistry, Formalin-Fixed Paraffin-Embedded tissue.

Cell Source: Thymus  
Percentage of cells stained above control: 99.8 %