

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. Do Not Freeze! Avoid prolonged exposure to light.
Stability:	Shelf life: one year from despatch.
Gene Name:	thymus cell antigen 1, theta
Database Link:	Entrez Gene 21838 Mouse P01831

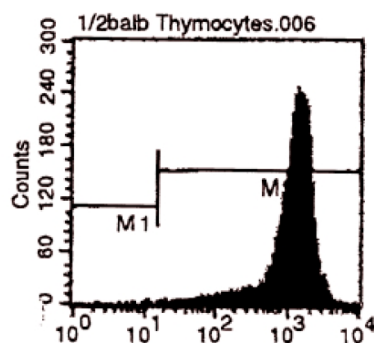


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Background:	CD90 / Thy1 antigen is a GPI linked glycoprotein member of the Immunoglobulin superfamily. It is expressed on murine T cells, thymocytes, neural cells, cells of granulocytic lineage, early hematopoietic progenitors, fibroblasts, neurons 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:
	<p>Method:</p> <ol style="list-style-type: none"> 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 2×10^7 cells/ml in media A. Add 50 μl of this suspension to each tube (each tube will then contain 1×10^6 cells, representing 1 test). 4. To each tube, add 1.0 μg 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 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.
	<p>Media:</p> <p>A. Phosphate buffered saline (pH 7.2) + 5% normal serum of host species + sodium azide (100 μl of 2M sodium azide in 100 mls).</p> <p>B. Phosphate buffered saline (pH 7.2) + 0.5% Bovine serum albumin + sodium azide (100 μl of 2M sodium azide in 100 mls).</p>
	<p>Results-Tissue Distribution:</p> <p>Mouse Strain: BALB/c</p> <p>Cell Concentration : 1×10^6 cells per test</p> <p>Antibody Concentration Used: 1.0 μg / 10^6 cells</p> <p>Isotypic Control: APC Mouse IgG2b</p>
	<p>Cell Source-Percentage of cells stained above control:</p> <p>Thymus: 99.8%</p>
	<p>Strain Distribution:</p> <p>Tissue: Thymus</p> <p>Cell Concentration: 1×10^6 cells per test</p> <p>Antibody Concentration Used: 1.0 μg/10^6 cells</p> <p>Strains Tested: C57BL/6, C3H/He, CBA/J, BALB/c, ATL, AKR/J</p> <p>Positive: C57BL/6, C3H/He, CBA/J, BALB/c, ATL</p> <p>Negative: AKR</p>

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 %