

Product datasheet for **AM08054FC-N**

Thy1 Rat Monoclonal Antibody [Clone ID: G7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	G7
Applications:	FC
Recommended Dilution:	Flow Cytometry: $\leq 1 \mu\text{g}/10^6$ cells. (Ref.1, 6-8)
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2c
Clonality:	Monoclonal
Immunogen:	Mouse T cell hybridoma C6/G8
Specificity:	This antibody recognises Thy-1.1 and Thy-1.2 alloantigens (Thy-1 epitope region A), Mr 28-32 kDa.
Formulation:	PBS containing 0.09% Sodium Azide as preservative. Label: FITC State: Liquid purified Ig fraction. Label: Fluorescein Isothiocyanate Isomer 1
Concentration:	lot specific
Conjugation:	FITC
Storage:	Store the antibody undiluted at 2-8°C. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	thymus cell antigen 1, theta
Database Link:	Entrez Gene 21838 Mouse P01831



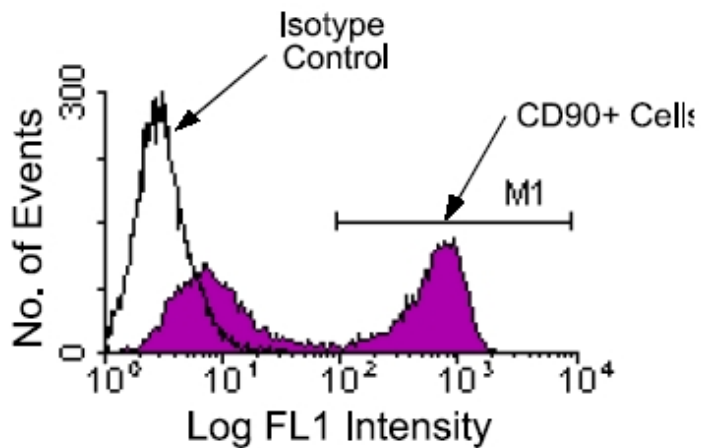
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Background:

CD90/Thy-1, a GPI-anchored molecule and one of the smallest members of the immunoglobulin superfamily of cell surface receptors, consists of a single V-set domain. (Ref.1-4) It is expressed on thymocytes, peripheral T lymphocytes, some intraepithelial T lymphocytes and neurons of all mouse strains. (Ref.1,2) MAb G7 stimulates T-cell proliferation and IL-2 secretion, via signalling through the T-cell receptor/CD3 complex. (Ref.1,5-7). It has also been reported to promote apoptosis of thymocytes and CTL clones (Ref.4,7) and to mediate adhesion of thymocytes to thymic stroma. (Ref.8)

Synonyms:

Thy-1, THY1, CDw90

Product images:

Immunofluorescent Staining: BALB/c mesenteric lymph node cells were stained with either Rat IgG2c-FITC (as a Negative Control) or Rat anti-Mouse CD90-FITC. Lymphocytes were then gated and analyzed on a FACScan (TM) flow cytometer (BDIS, San Jose, CA). Amount Used: 1 ug/10e6 cells.