

Monoclonal Antibody to CD90 / THY1 - FITC -

Alternate names:	CDw90, THY1, Thy-1, Thy-1 membrane glycoprotein
Catalog No.:	SM1170F
Quantity:	0.1 mg
Concentration:	0.1 mg/ml
Background:	CD90 is a 25kD glycoprotein homologous to rat Thy1. The antigen is expressed by a subset of CD34+ve cells in the bone marrow and by prothymocytes within the thymus. CD90 is also expressed extensively within the brain.
Uniprot ID:	P04216
NCBI:	NP_006279.2
GeneID:	7070
Host / Isotype:	Mouse / IgG1
Clone:	F15-42-1
Immunogen:	Purified Human brain Thy-1. Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS-1 myeloma cell line.
Format:	State: Liquid purified IgG fraction. Purification: Affinity Chromatography on Protein G. Buffer System: PBS, pH 7.4 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer. Label: FITC – Fluorescein Isothiocyanate Isomer 1
Applications:	Flow Cytometry: Use 10 µl of neat antibody to label 1x10 ⁶ cells in 100 µl. This product is routinely tested in Flow Cytometry on the MOLT4 cell line. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	SM1170F recognizes the Human CD90 cell surface antigen. Species: Human. Reacts with Cynomolgus Monkey. Other species not tested.
Storage:	Store the antibody 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. Shelf life: one year from despatch.
General References:	1. McKenzie, J.L. and Fabre, J.W. (1981). Human Thy-1: Unusual localization and possible functional significance in lymphoid tissues. <i>J. Immunol.</i> 126: 843-850. 2. Daar, A.S. and Fabre, J.W. (1981). Demonstration with monoclonal antibodies of an unusual mononuclear cell infiltrate and loss of normal epithelial membrane antigens in

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human breast carcinomas. *Lancet*. 2: 434-438.

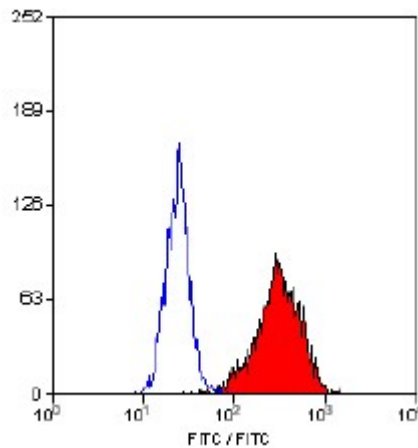
3. Yoshino, N. et al. (2000) Upgrading of flow cytometric analysis for absolute counts, cytokines and other antigenic molecules of Cynomolgus monkeys (*Macaca fascicularis*) by using anti-human cross-reactive antibodies. *Exp. Anim.* 49 (2): 97-110.

4. Fiegal, H. C. et al. (2004) Stem-like cells in human hepatoblastoma. *J. Histochem. Cytochem.* 52: 1495-1501.

5. Hagood, J. S. et al. (2005) Loss of fibroblast Thy-1 expression correlates with lung fibrogenesis. *Am. J. Pathol.* 167: 365-379.

6. Diaz-Romero, J. et al. (2008) Immunophenotypic changes of human articular chondrocytes during monolayer culture reflect bona fide dedifferentiation rather than amplification of progenitor cells. *J Cell Physiol.* 214: 75-83.

Pictures:



Staining of HUT78 T cells with Mouse anti Human CD90-FITC (SM1170F).

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