

MONOCLONAL ANTIBODY CDw90 (Thy-1)

Cat. No.	Form	Quantity	Presentation
1839	FITC	100 tests	Liquid 2 ml
1840	Phycoerythrin	100 tests	Liquid 2 ml

Clone F15.42

Isotype IgG1 (mouse)

Immunogen Purified Thy-1 antigen from human brain

Hybridoma P3-NS1/1Ag4.1 x mouse Balb/c spleen cells

Specificity CDw90 (Thy-1) is the 25-35 kDa smallest member of the immunoglobulin gene superfamily. Human Thy-1 is highly glycosylated and is inserted into the cellular membrane via a glycosyl phosphatidylinositol anchor (1).

The Thy-1 antigen has a broad tissue distribution. It is expressed in nervous tissue, connective tissue and various stromal cell lines (1).

Thy-1 characterizes a rare (0.05 to 0.1%) subset of human fetal bone marrow cells, that contains multipotent hematopoietic progenitor activity (2).

This antigen is expressed on 5 to 25% of CD34⁺ cells from human bone marrow, umbilical cord blood or fetal liver (3). CD34⁺ Thy-1⁺ cells include the most primitive hematopoietic progenitor cells measured in vitro including high proliferative potential colony-forming cells and cells capable of initiating long-term bone marrow culture (3).

Applications Flow cytometry

Buffer 2 mg/ml bovine serum albumin in phosphate buffered saline containing 0.1% sodium azide.

Storage The conjugated forms should not be frozen and should be stored in the dark at 2 - 8°C until the expiration date stated on the vial label.

Recommended Procedures Flow cytometry.
Liquid form: 20 µl/5x10⁵ cells/test or 100 µl whole blood

Dual color fluorescence. dual color fluorescence staining can be obtained, for example, by mixing 20 µl of CD34 conjugated antibody with 20 µl of FITC or PE conjugated CDw90

January 10, 1996

