# Thy-1 (T24/31): sc-59401



The Power to Ouestion

#### **BACKGROUND**

Over 100 cell surface markers have been identified through the use of monoclonal antibodies. Many of these markers have proven useful in identifying specific subpopulations of cells within mixed colonies. Accordingly, these molecules have been assigned a "cluster of differentiation" (CD) designation. One such marker, designated Thy-1 (also referred to as CDw90), is a phosphatidyl-anchored cell surface glycoprotein which, when coexpressed with CD34 on cells from normal human bone marrow, identifies a subpopulation that includes putative hematopoietic, pleuripotent stem cells. Thy-1+ cells from bone marrow have been implicated in syngeneic graft versus host disease and may serve to regulate autoreactivity after bone marrow transplant.

# **REFERENCES**

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- 2. Bryson, J.S., et al. 1993. Thy-1+ bone marrow cells regulate the induction of murine syngeneic graft-versus-host disease. Transplantation 56: 941-945.
- 3. Kim, Y.B., et al. 1994. CD11/CD18 panel report for swine CD workshop. Vet. Immunol. Immunopathol. 43: 289-291.
- 4. Firer, M.A., et al. 1995. The Thy-1 molecule: its properties and functions. Isr. J. Med. Sci. 31: 382-386.
- 5. Holden, J.T., et al. 1995. Characterization of Thy-1 (CDw90) expression in CD34+ acute leukemia. Blood 86: 60-65.
- Fujita, N., et al. 1995. Apoptosis inhibition by anti-M<sub>r</sub> 23,000 (Thy-1) monoclonal antibodies without inducing Bcl-2 expression. Cell Growth Differ. 6: 355-362.
- 7. Campos, L., et al. 1996. Expression of Thy-1 antigen (CDw90) on adult acute leukemia blast cells. Blood 87: 413-414.

# **CHROMOSOMAL LOCATION**

Genetic locus: Thy1 (mouse) mapping to 9 A5.1.

# SOURCE

Thy-1 (T24/31) is a rat monoclonal antibody raised against full length Thy-1 of mouse origin.

## **PRODUCT**

Each vial contains 200  $\mu g$   $lgG_{2b}$  in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## **STORAGE**

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

# **PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.

#### **APPLICATIONS**

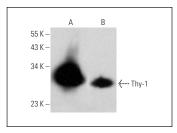
Thy-1 (T24/31) is recommended for detection of Thy-1 present on thymocytes, peripheral T-cells and some intraepithelial T-lymphocytes of mouse origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], flow cytometry (1  $\mu$ g per 1 x 10<sup>6</sup> cells) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

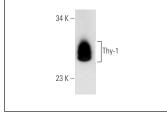
Suitable for use as control antibody for Thy-1 siRNA (m): sc-36667, Thy-1 shRNA Plasmid (m): sc-36667-SH and Thy-1 shRNA (m) Lentiviral Particles: sc-36667-V.

Molecular Weight of Thy-1 glycosylation: 25-37 kDa.

Positive Controls: BW5147 cell lysate: sc-3800, mouse brain extract: sc-2253 or CTLL-2 cell lysate: sc-2242.

### DATA





Thy-1 (T24/31): sc-59401. Western blot analysis of Thy-1 expression in BW5147 whole cell lysate (**A**) and mouse brain tissue extract (**B**).

Thy-1 (T24/31): sc-59401. Western blot analysis of Thy-1 expression in mouse PBL whole cell lysate.

## **RESEARCH USE**

For research use only, not for use in diagnostic procedures.



See **Thy-1 (aTHy-1A1): sc-53456** for Thy-1 antibody conjugates, including AC, HRP, FITC, PE, and Alexa Fluor<sup>®</sup> 488, 546, 594, 647, 680 and 790.

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