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Nordic MUbio

Rabbit anti-rat Thy-1/CD90

Catalogue number: **MUB2058**

Clone	Polyclonal
Product Type	Primary Antibodies
Units	0.1ml
Host	Rabbit
Species reactivity	Mouse Rat
Application	Immunocytochemistry Immunohistochemistry (frozen)

Distributors

For Purchasing Information, please contact your local distributor

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Background

Thymocyte-1 antigen (Thy-1), also known as CD90, is a glycophosphatidylinositol (GPI)-anchored cell surface glycoprotein that is a member of the immunoglobulin superfamily. Expression of Thy-1, originally identified as a marker of thymocyte differentiation in mice, has been found to vary between species. In rats, unlike mice, Thy-1 is expressed on bone marrow cells but not on peripheral T-cells. In both mice and rats, Thy-1 is abundantly expressed on thymocytes and neuronal cells and to a lesser extent on fibroblasts, myofibroblasts, vascular endothelial cells, mammary glands and other non-lymphoid tissues. In many tissues the level of Thy-1 expression changes during cell differentiation. The exact function of Thy-1 has not been fully determined but studies suggest that Thy-1 may be an important regulator of cell-cell and cell-matrix interactions due to its involvement in a range of biological processes including cell growth and differentiation, cell adhesion and migration, apoptotic signalling and tumour suppression.

Source

Thy-1 antibody is a rabbit polyclonal antiserum obtained from rabbits immunised with purified Thy-1 derived from rat brain.

Product

Each vial contains 100µl polyclonal antiserum containing 0.02% sodium azide.

Applications

Thy-1 is suitable for the detection of rat and mouse Thy-1 by immunohistochemical staining of frozen tissue sections. After drying, the sections can be either left unfixed or fixed with acetone at 4°C for 4 min or 95% ethanol at 4°C for 15 min or 4% formaldehyde in phosphate buffered saline pH 7.4 at 20°C for 15

min. Also isolated cells can be immunocytochemically stained by this antiserum. Optimal antibody dilutions for the different applications should be determined by titration. Recommended range 1:50 – 1:100.

Specificity
Thy-1 antiserum is directed against rat thymocyte-1 antigen (Thy-1) and also reacts with mouse Thy-1.

Storage
Store at 4oC, or in small aliquots at -20oC.

References
1. Barclay AN, Letarte-Muirhead M, Williams AF. (1975) Purification of the Thy-1 molecule from rat brain. Biochem J. 151:699-706.
2. Letarte-Muirhead M, Barclay AN, Williams AF. (1975) Purification of the Thy-1 molecule, a major cell-surface glycoprotein of rat thymocytes. Biochem J. 151:685-97.
3. Barclay AN, Hydén H. (1978) Localization of the Thy-1 antigen in rat brain and spinal cord by immunofluorescence. J Neurochem. 31:1375-91.
4. Barclay AN. (1979) Localization of the Thy-1 antigen in the cerebellar cortex of rat brain by immunofluorescence during postnatal development. J Neurochem. 32:1249-57.
5. Barclay AN, Hydén H. (1979) Localization of the Thy-1 antigen by immunofluorescence on neurons isolated from rat brain. J Neurochem. 32:1583-86.

Caution
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