

# anti-mouse/rat CD90 (Thy 1.1)

## Monoclonal Antibody MRC OX-7 to CD90 (Mouse)

Cat-No: **22150901**

100 µg in 100 µl

**Clone:** MRC OX-7

**Specificity:** anti-rat CD90 (Thy 1.1) monoclonal antibody recognizes the Thy 1.1 antigenic determinant, designated CD90 on rat as well as mouse cells. This particular determinant has been defined to be monomorphic within rats but polymorphic in the mouse. This antibody reacts with Thy 1.1 mice (ie. AKR) but not Thy 1.2 mice (ie. CBA, BALB/c). The affinity of the F(ab) of this antibody for rat Thy-1 is  $3 \times 10^9 \text{ M}^{-1}$  and for mouse Thy 1.1 is  $3 \times 10^8 \text{ M}^{-1}$ . The Thy-1 antigen is found on a variety of cell types including thymocytes, neuronal cells (mouse, rat), T and immature B cells (rat), breast epithelial cells (rat), and connective tissue. This antibody has been used to determine that the Thy 1.1 molecule is a glycoprotein with 112 amino acids which is homologous to immunoglobulin domains. The Thy-1 antigen is found on a diversity of cell types and thus it can be used as a cell marker. Applications include: flow cytometry

**Isotype subclass:** Mouse IgG1

**Form:** Purified

**Physical state:** Liquid

**Buffer/Additives/Preservative:** PBS containing 0.09 % sodium azide (pH 7.2)

**Expiration date:** The reagent is stable until the expiry date stated on the vial label

**Storage conditions:** Store at 4 °C. For long term storage, aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.

**Application:** Flow Cytometry, Immunohistochemistry (frozen sections)

### References:

1. Mason, D.W. and A.F. Williams. (1980) Biochemical J. 187, 1-20. The Kinetics of antibody binding to membrane antigens in solution and at the cell surface.
2. Campbell, D.G., Gagnon, J., Reid, K.B.M. and A.F. Williams. (1981) Biochemical J. 195, 15-30. Rat brain Thy-1 glycoprotein.
3. Williams, A.F. and J. Gagnon. (1982) Science 216, 696-703. Neuronal cell Thy-1 glycoprotein: homology with immunoglobulin.
4. Dulbecco, R., Bologna, M. and M. Unga. (1979) Proc. Nat'l. Acad. Sci. 76, 1948. Role of Thy-1 antigen in the in vitro differentiation of rat mammary cell line.
5. Barclay, A.N. and H. Hyden. (1978) J. Neurochem. 31, 1375-1391. Localization of the Thy-1 antigen in rat brain and spinal cord by immunofluorescence.
6. Hunt, S.B., Mason, D.W. and A.F. Williams. (1977) Eur. J. Immuno. 7, 817-823. In rat bone marrow Thy-1 antigen is present on cells with membrane immunoglobulin and on precursors of peripheral B lymphocytes.

### Warning:

Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

This material is offered for **research only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

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