

## Monoclonal Antibody to CD90 - PE

<b>Alternate names:</b>	CDw90, THY1, Thy-1, Thy-1 membrane glycoprotein
<b>Catalog No.:</b>	SM049RT
<b>Quantity:</b>	25 Tests
<b>Background:</b>	CD90 is expressed on a variety of cell types including thymocytes, neuronal cells, stem cells, T lymphocytes (mouse), immature B cells (rat) and connective tissues.
<b>Uniprot ID:</b>	<a href="#">P01831</a>
<b>NCBI:</b>	<a href="#">NP_033408.1</a>
<b>GeneID:</b>	<a href="#">21838</a>
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Clone:</b>	OX-7
<b>Immunogen:</b>	Rat Thy 1 antigen. Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.
<b>Format:</b>	<b>State:</b> Lyophilized purified IgG fraction. <b>Purification:</b> Ion Exchange Chromatography. <b>Buffer System:</b> PBS, pH 7.2 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer. <b>Label:</b> PE – R. Phycoerythrin (RPE) <b>Reconstitution:</b> Restore with distilled water.
<b>Applications:</b>	Flow Cytometry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognises CD90, also known as Thy1.1. Since Thy1.1 is a monomorphic determinant in rat but polymorphic in mice, clone MRC OX-7 reacts with Thy1.1 mice e.g. AKR and FVB mice, but not Thy1.2 mice such as CBA and BALB/c. Clone MRC OX-7 has been demonstrated to promote neurite outgrowths on peripherin-stained sympathetic neurons, using fluorescence microscopy. <b>Aff. Const.</b> of the Fab' of MRC OX-7 for: Rat: $3 \times 10^9 \text{m}^{-1}$ Mouse: $3 \times 10^8 \text{m}^{-1}$ <b>Species:</b> Rat, Mouse, Rabbit, Guinea Pig. Other species not tested.
<b>Storage:</b>	Prior to and following reconstitution store the antibody undiluted at 2-8°C. <b>DO NOT FREEZE!</b> This product is photosensitive and should be protected from light. Shelf life: One year from despatch.

**For research and in vitro use only. Not for diagnostic or therapeutic work.**

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- General References:**
1. Mason, D.W. and Williams, A.F. (1980) The Kinetics of antibody binding to membrane antigens in solution and at the cell surface. *Biochem.J.* 187: 1-20
  2. Campbell, D.G. et al. (1981) Rat brain Thy-1 glycoprotein. *Biochem. J.* 195: 15-30
  3. Bukovsky, A. et al. (1983) The localization of Thy-1.1, MRC OX 2 and Ia antigens in the rat ovary and fallopian tube. *Immunology.* 48:587-595
  4. Lee, W. et al. (1998) Thy-1, a novel marker for angiogenesis up regulated by inflammatory cytokines. *Circ. Res.* 82: 845 - 851.
  5. Banerjee, S.A. et al. (1997) An antibody to the tetraspan membrane protein CD9 promotes neurite formation in a partially alpha3beta1 integrin-dependent manner. *J. Neurosci.* 17: 2756-2765.
  6. Kawachi, H. et al. (1992) Epitope-specific induction of mesangial lesions with proteinuria by a MoAb against mesangial cell surface antigen. *Clin. Exp. Immunol.* 88: 399-404.

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