

Monoclonal Antibody to CD90 - PE

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| Alternate names: | CDw90, THY1, Thy-1, Thy-1 membrane glycoprotein |
| Catalog No.: | SM049R |
| Quantity: | 100 Tests |
| Background: | 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. |
| Uniprot ID: | P01831 |
| NCBI: | NP_033408.1 |
| GeneID: | 21838 |
| Host / Isotype: | Mouse / IgG1 |
| Clone: | OX-7 |
| Immunogen: | Rat Thy 1 antigen. Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line. |
| Format: | State: Lyophilized purified IgG fraction. Purification: Ion Exchange Chromatography. Buffer System: PBS, pH 7.2 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer. Label: PE – R. Phycoerythrin (RPE) Reconstitution: Restore with distilled water. |
| Applications: | Flow Cytometry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user. |
| Specificity: | 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. Aff. Const. of the Fab' of MRC OX-7 for: Rat: $3 \times 10^9 \text{m}^{-1}$ Mouse: $3 \times 10^8 \text{m}^{-1}$ Species: Rat, Mouse, Rabbit, Guinea Pig. Other species not tested. |
| Storage: | Prior to and following reconstitution store the antibody undiluted at 2-8°C. DO NOT FREEZE! 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.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

- 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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